CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Dam, California, Los Angeles City and Los Angeles Flood Control Dist. plan dam, $4,600,000.

Hotel and theatre, Brooklyn, N. Y., Shelburne Constr. Co. having plans prepared, $4,000,000.

Land development, Weslaco, Tex., Progress Development Co., Houston, making plans, $3,500,000.

Railway, Texas, Clinton & Oklahoma Western R.R. Co. making surveys, $3,000,000.

Home and hospital, Mayview, Pa., Dept. Charities, Pittsburgh, having plans prepared, $2,500,000.

Wharves, New Orleans, La., Dock Bd. had preliminary plans prepared, $2,000,000.

Store, Seattle, Wash., F. McDermott having plans prepared, $2,000,000.

Women's prison, New York, N. Y., Dept. Correction, $2,000,000.

Apartment, New York, N. Y., Four Hundred Seventy West End Avenue Corp. having plans prepared, $1,500,000.

Sewer, Vancouver, B. C., Vancouver & Dist. Joint Sewage & Drainage Bd. making plans, $1,500,000.

Dam, Ste. Julienne, Que., Gatineau Power Co. soon takes bids, $1,000,000.

Refrigeration plant, Dallas, Texas, Stevenson Engr. Co. soon takes bids, $1,000,000.

Bids Desired

Sewers, St. Louis, Mo., Sept. 27, by Bd. Pub. Serv., $3,071,000.

Exchange and office, Oklahoma City, Okla., Sept. 15, by Southern Bell Telephone Co., $3,000,000.

Apartment hotel and store, Pittsburgh, Pa., P. M. Julian, archt., Washington, D. C., taking bids, $2,000,000.

Hospital, Brooklyn, N. Y., Lord & Hewlett, archts., New York City, taking bids, $1,600,000.

Theatre and commercial building, Rochester, N. Y., Sept. 28, by Graven & Mayger, archts., Chicago, Ill., $1,500,000.

Warehouse, Houston, Texas, A. S. Bergendahl, archt. and engr., soon takes bids, $1,000,000.

Bids Received

Auditorium and library, Los Angeles, Calif., Regents of University of Calif., general contract from J. C. Bannister and F. Gow, $1,490,000; subcontracts, $175,421.

Contracts Awarded

Produce terminal, Los Angeles, Calif., Central Mfg. Dist. Co., 1st unit, to W. P. O'Neil Co., approximately $1,500,000, total, $3,500,000.

Bridge, St. Louis, Mo., J. R. Scott, Jr., substructure to Union Bridge Constr. Co., Kansas City; and superstructure to American Bridge Co. Engrs. est., $2,500,000.

Hotel, Los Angeles, Calif., Central Investment Co. to Scofield Engr. Constr. Co., $2,250,000.

Cement mill, White Cliffs, Ark., Ideal Cement Co., Denver, Colo., will build by day labor, $2,000,000.

Club, Pittsburgh, Pa., Keystone Athletic Club to Mellon Stuart Co., $1,900,000.

Elevator, Montreal, Que., Harbor Comm. of Montreal to E. G. Cope & Co., Ltd., $1,800,000.

Hospital and nurses home, and power plant, Newton, Mass., Newton Hospital to Holt-Fairchild Co., Boston, archt. est., $1,500,000.

Apartment, New York, N. Y., V. Astor to George A. Fuller Co., archts est., $1,000,000.

Temple, Boston, Mass., Congregational Adath Israel Temple, general contract to C. S. Cunningham and subcontracts. Archts. est., $1,000,000.

News of the Week

Waterworks

Proposed Work

Pa., Pittsburgh—Soon takes bids North Side Intermediate Reservoir, Lafayette St. and Biggs Ave., incl. excavation, subfoundation and embankments, drains, manholes, etc. $185,000. Bureau of Water, City County Bldg., engrs.

Ind., Evansville—Bd. Wks., E. Heberer, pres., City Hall, making plans extending waterworks. $1,000,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs. Noted July 7.

Mich., Detroit—Making plans waterworks incl. pumping station, filtration plant and coagulation basin, on Lake St. Clair, $641,000. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Ark., Texarkana — City Water Corp., making preliminary plans 110 m.g. storage reservoir, additional fire pumps and distribution mains. $200,000. G. W. Briggs c/o owner, engr.

Tex., Catarina—See "Unclassified."

Tex., Devine — Takes bids after Sept. 17, waterworks, incl. distributing system, pumping unit, etc. $45,000. Walton & Arneson, 618 Gunter Bldg., San Antonio, engrs. Noted Sept. 1.

Tex., Weslaco—See "Unclassified."

Okla., Oklahoma City — Making preliminary plans new conduit line from reservoir to filtration plant, incl. 90,000 ft. 54 in. c.i. pipe. $750,000 bond election soon for same. B. M. Hart, City Hall, engr.

Okla., Perry—Making preliminary plans 13,300 ft. 4- to 8-in. c.i. mains in various streets. $20,000 bond election soon for same. C. A. Wood, Stillwater, engr.

Okla., Rocky—Voted $21,000 bonds, new wate works, incl. deep well pump and motor, etc. W. D. Sanders, mayor. Engineer not announced.

Wash., Aberdeen — C. S. Watkins, supt. Water Dept., making plans industrial water supply from lower Wynooche River. $1,-Apr. 21.

Wash., Port Townsend — Voted $800,000 bonds, waterworks, plant delivers 14 m.g.d., on Quilcene River. Noted Mar. 3.

Calif., Alhambra—Making plans c.i. mains in San Clement and Montezuma Aves., etc. $25,000 or more.

Calif., Redwood City—Ravenswood Water Dist. voted $30,000 bonds, Matheson joint, welded steel or c.i. pipe line. G. A. Kneese, Courthouse, Redwood City, engr. Noted Aug. 4.

Calif., Santa Monica—Plans domestic water and fire protection system in 23rd St., etc. To exceed $25,000.

Calif., Tracy—Making plans enlarging water supply. $15,000 or more. E. T. Bartlett, city engr.

Ont., Brantford—Council plans filtration system, $40,000. N. R. Wilson, Water Dept., engr. R. S. and W. S. Lea, 340 University Ave., Toronto, consult. engrs.

Ont., Hamilton — Plans rein.-con., reservoir west end of city and improving Ferguson Ave. pumping station. $800,000. W. L. McFaul, City Hall, engr.

B. C., Vancouver — Greater Vancouver Water Dist. Bd., making plans extending Seymour main from Rupert St. and 22nd Ave. to Central Park at Boundary Rd. for 5,000 bbl. cement, for above, to Balfour Guthrie & Co., 739 West Hasting St., Evans, Coleman & Evans, Ltd., foot of Columbia Ave. and New Method Coal & Supplies, Ltd., foot of Main St., at $2.80 per bbl.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Bids Desired

N. Y., Harriman—Sept. 29, by Village Trustees, Harriman School, waterworks, incl. reservoir, mains, etc. H. J. Harder, 129 Market St., Paterson, N. J., engr., adv. E. N.-R. Sept. 15.

N. J., Denville—Sept. 21, by Twp. Comn., Township Hall, water pipe, fittings, hydrants, etc. G. W. Knight, 147 Prospect St., Passaic, consult. engr.; adv. E. N.-R. Sept. 15.

Pa., Phila.—Sept. 19, by Dept. Pub. Wks., Bureau of Water, chlorine apparatus, for Belmont mechanical filters, Contr. 899. G. H. Biles, dir.

Md., Oxford—Sept. 21, by City Comrs., complete pump, motor, etc., for pumping station, excavating and backfilling 3 mi. trenches, laying 6 and 8 in. c.i. main, and 100,000 gal. steel water tank. Kastenhuber & Anderson, P. O. Drawer R, Easton, engrs.; adv. E. N.-R. Sept. 15.

Fla., Bradentop—Sept. 27, by City Council, drilling and completing 12 in. well, approximately 800 ft. deep. R. K. Van Camp, com. Pub. Wks.; adv. E. N.-R. Sept. 15.

Fla., Plant City—Sept. 26, by City, waterworks equipment, E. H. Thompson, city mgr., adv. E. N.-R. Sept. 15.

O., Cleveland—Sept. 21, by Bd. Comrs. Cuyahoga Co., 13,500 lin.ft. 6- to 12-in. c.i. main in Bradley Rd., Impvt. 1257, and 20,000 lin.ft. 6 and 8 in. in Cook Rd., Hamlin St., etc., Impvt. 1452.

Mich., Detroit—Oct. 5, by Bd. Water Comrs., 176 East Jefferson Ave., 10,000 g.p.m. electric motor driven centrifugal pumping unit. G. H. Fenkell, gen. mgr.; adv. E. N.-R. Sept. 15.

Neb., Hastings—Sept. 26, by City, 670 ft. 8 in. Class B mains in Water Dist. 74, and 1,800 ft. 6 in. Class B mains in Water Dist. 75; also 3,800 ft. 8 in. vitr. clay or concrete sewer in Sewer Dist. 117. P. T. Naylor, City Hall, engr.

Tex., Marathon—Borderland Utilities Co., Ft. Stockton, taking bids improving waterworks, here. $15,000. Private plans.

Tex., San Antonio — See "Contracts Awarded."

Colo., Denver—Sept. 20, by Bd. Water Comrs., 1509 Cleveland Pl., approximately 4,581 ft. 66-in. steel or pre-cast rein.-con. conduit known as Conduit 13, along Clayton St., from 1st Ave. to Capitol Hill Reservoir. D. D. Gross, c/o owner, engr.

B. C., Vancouver—Sept. 29, by Greater Vancouver Water Dist. Bd., 4,500 ft. 18 in., 1⅛ in. thick plain spigot and faucet c.i. pipe. $30,000. E. A. Cleveland, 500 Beatty St., engr.

B. C., Vancouver—Sept. 29, by E. A. Cleveland, engr., 500 Beatty St., one 72, 60, and 48 in., two 36 in., two 32 in., five

See proposal advertising on page 136

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Laid 10 miles of water main—and satisfactory in every particular!

—said a waterworks engineer of national reputation, referring to this installation

Here is the story:—

THE Second Taxing District, South Norwalk, Connecticut, U.S.A., has just completed the installation of approximately ten miles of cast iron bell and spigot water mains, varying in size from 6" to 18". The work included the placing of about fifty cutting-in-tees on existing piping and their connection to new work.

Leadite was selected for jointing material after receiving competitive bids for laying with lead.

The total amount of the successful bids for all work, excepting the furnishing of the cast iron pipe, specials and valves, was as follows:

Lead Joints	$155,631
LEADITE Joints	142,535
Difference	$ 13,096
Saving in favor of **LEADITE**	8.4%

The work was performed by contractors experienced in the use of this material and was satisfactory in every particular.

Specifications required that after laying, the pipe should be tested for leakage under water pressures varying from 40 pounds to 115 pounds per square inch, and that the leakage should not exceed two gallons per 24 hours per linear foot of joint. The results of the tests were well within this limit.

This work was under the direction and supervision of Mr. Nicholas S. Hill, Jr., Consulting Engineer, 112 East 19th Street, New York, N.Y., U. S. A.

Leadite is used extensively by thousands of water works engineers, superintendents and contractors with excellent results.

Specify and use **LEADITE** It saves at least 75%

Be sure it is **LEADITE** and accept no imitations

The pioneer self-caulking material for c. i. pipe. Tested and used for over 30 years.

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA., U. S. A.

NO CAULKING

Waterworks (Continued)

24 in., five 18 in., eighteen 12 in., ten 8 in., thirty-five 6 in., and thirty-five 4 in. gate valves, for Greater Vancouver Water Dist. $15,000.

Contracts Awarded

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 59th, 77th, 78th Sts., etc., here, to Pallasino Contg. Co., 1479 Park Ave., New York City, $8,672. Noted Aug. 25.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., 36 in. steel mains in Central Park and 5th Ave., Manhattan Boro, also in Barker, Brunner, Cambeling Aves., etc., Bronx Boro, to Beaver Eng. & Contg. Co., 51 Chamber St., $115,634 and $8,060 respectively. Noted Aug. 18.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, Contrs. 894 and 895, to Keystone State Piping & Constr. Co., 738 East Venango St., $6,125 and $4,045 respectively; Contr. 896, to Ehret Magnesia Mfg. Co., 1325 West Cumberland St., $625; Contr. 897, to M. and J. B. McHugh, 892 North Markoe St., $123,938; and Contr. 898, to Acme Machine Co., 27 North 38th St., $2,335. Grand total $137,068. Noted Aug. 25.

Pa., Pittsburgh—Steam turbine driven centrifugal pumps at Ross Pumping Sta., to Dravo Doyle Co., Penn Ave. and 2nd St. $174,200. Engrs. est. $210,000. Noted June 23.

Pa., Pittsburgh — Sub-foundation work grading, etc., for Brashear Reservoir, Montana Ave., to Pitt Constr. Co., Empire Bldg., $50,650. Engrs. est. $85,000. Noted May 5.

N. C., Goldsboro — Pumping station, to A. H. Guion Co., Gastonia, $27,000. Noted Aug. 18.

N. C., Raleigh—Clear water basin, to R. G. Lassiter & Co., Citizens Bank Bldg., $48,352.

N. C., Rockingham — Waterworks, incl. dam, 7,700 ft. main, and filtering plant, to V. B. Higgins, 612 Kingston Ave., Charlotte, $82,500.

O., Cleveland — Cuyahoga Co., 9,000 ft. 12 in. c.i. mains in Hall and Detroit Rds., to Mutual Constr. Co., 239 Bradley Court, $37,065, and 6,000 ft. 6 and 8 in. mains in Elmwood Rd., to Abood & Lewis, 626 Huron Rd., $16,745.

Mich., Detroit—Detroit Fire Dept., 1,000 Detroit Fire Dept. Standard Fire Hydrants, f.o.b. Detroit, to Michigan Valve & Fdry. Co. 3631 Parkinson St., at $56.95 each, total $56,950.

Mich., Detroit — Dept. Water Supply, brick, steel and concrete, weir and control chambers at Water Works Park, to M. Bartholomaie & Son Co., 1574 East Warren Ave., approximately $15,000.

Mich., Royal Oak (Ind. br. Detroit)—To Natl. Cast Iron Pipe Co., Tarrant City, Birmingham, 12,000 ft. 6 in. c.i. pipe at $0.595 per ft., 7,000 ft. 8 in. $0.85, and 180 ft. 16 in. $2.56.

Wis., Wauwatosa—Milwaukee Co. Institutions, 8,989 ft. 16 in. c.i. mains, hydrants, etc. for institutions, here, to W. T. Werner, 675 Hi-Mound Blvd., Milwaukee, $19,660.

Kan., Bonner Springs—A. G. Parker, city clk., waterworks improvements, to Wayne Western Co., 507 Mutual Bldg., Kansas City, Mo., $16,100. Noted Aug. 4.

Mont., Phillipsburg—Approximately 14,400 lin.ft. pipe for water supply line from south fork Boulder Creek to city reservoirs, to W. N. Fesler, Phillipsburg at $0.14 per ft.; constructing above supply line to Amer. Wood Pipe Co., 32nd and Cedar Sts., Tacoma, Wash., $10,724; and 5 concrete dam structures, to G. M. Roberts, Phillipsburg, $950. Noted May 12.

Tex., San Antonio—Will lay 8 and 10 in. additional mains in Highland Park section, by day labor, $16,000 equipment. I. Ewig, city engr.

Calif., Los Angeles—To Crane Co., 321 East 3rd St., 25,000 ft. ¾ in. wrought iron pipe at $7.07 per 100 ft., 75,000 ft. ⅜ in. $7.75, 100,000 ft. 1 in. $10.90 and 4,000 ft. 2 in. $19.24.

Ont., Goderich—For two-170 hp. gasoline engine, two 750 and one 650 gal. centrifugal pumps with electric motor, to Turbine Equipment Co. Ltd., 73 King St. W., Toronto. Engrs. est. $15,000.

Que., Montreal—Enlarging 2 rapid sand filteration basins, 50,000,000 imp. g.p.d. capacity, to Atlas Constr. Co., Ltd., Belmont St., $1,013,140.

B. C., West Vancouver — New Nelson Creek waterworks, intake, pipes, etc., to Bartholomew & Montgomery, 510 Hastings St., Vancouver, $54,100.

Sewers

Proposed Work

Massachusetts—South Essex Sewerage Dist., Salem, 4,150 lin.ft. 33 x 34 and 30 x 42 in. concrete trunk sewers in Sect 7, Beverly and Danvers, from Welch & Moynihan, Salem, $72,000.

Pa Pittsburgh—Soon takes bids 15 in. terra cotta sewers in Broad, Herrod, Werder, Milford, and Danley Sts., etc. $40,000. Dept. Pub. Wks., City County Bldg., engrs.

N. C., Clayton—Making plans and soon takes bids 2½ mi. vitr. sewers, etc. in various streets. W. N. Pitt, Durham, engr.

O., Cincinnati — Hamilton Co. plans sewage disposal plant for Sewer 31, Dist. 7, $76,219; and 107,565 ft. 6- to 15-in. vitr. clay sewer in above district, $431,187. L. C. Boyatt, Court House, engr.

O., Salem—Plans sewage disposal plant. $193,000 bond election in November for same. E. S. Barckhoff, Salem, engr.

O., Wellsville—Bd. Control plans sewer in McQueens Run. $100,000.

Mich., Muskegon — Pearce, Greeley & Hansen, engrs., 6 North Michigan Blvd., Chicago, Ill., submitted report sewage disposal works, here, for City. $1,000,000. Noted Mar. 24.

Neb., Hastings—See "Waterworks."

Tex., Amarillo—Takes bids about Oct. 1, new sewage disposal plant. $350,000. Wynkoop Kiersted, 614 Interstate Bldg., Kansas City, Mo., engr. H. B. Jones, city engr. Noted Aug. 25.

Tex., Lockney—Hawley & Roberts, engrs., Leader Bldg., Lubbock, and Cotton Exch. Bldg., Ft. Worth, soon take bids sewers in various streets, here, for City, T. Z. Reed, mayor. $55,000 bonds voted.

Tex., Weslaco—See "Unclassified."

Tex., Yakum—Making preliminary plans extending sewers, etc. into outlaying districts. $75,000 bonds election soon for same. Terrell Bartlett Engineers, Calcasieu Bldg., San Antonio, engrs.

Calif., Colton—Plans extending sewers in nothern section city. To exceed $25,000.

Calif., Compton—Making plans 15,000 lin.ft. 8 in. vitr. sewers, etc. in Belle Vernon Acres. G. Rood, city engr.

Calif., Coronado—T. H. Messer, city mgr. making estimates sewage disposal plant. $30,000 or more.

Calif., Fullerton—Made plans 19,974 ft. 6- to 10-in. vitr. sewer, etc. in Basque Ave., etc. C. M. Thorpe, city engr.

Calif., Monterey—Defeated $25,000 bonds, storm sewer in lower section city.

Calif., Pomona—Making plans 8 in. vitr. sewers in 8th and 9th Sts., etc. $25,000 or more. F. C. Froehde, city engr.

Calif., San Francisco—Making plans sewer in Noriega St. $35,000 or more. M. M. O'Shaughnessy, city engr.

Calif., San Gabriel—Voted $55,000 bonds, drains, sewers, culverts, etc. in various streets.

Calif., Southgate—Plans concrete sewer, c.i. water mains, etc. in various streets. To exceed $25,000. E. M. Lynch, Central Bldg., Los Angeles, engr.

Calif., Westmoreland — Westmoreland Sanitary Dist. plans sewer and drainage construction. To exceed $25,000.

B. C., Vancouver — Vancouver & Dist. Joint Sewage & Drainage Bd., making plans 5 to 6 mi. False Creek Interceptor Sewer. $1,500,000.

Bids Desired

Mass., Boston—Sept. 21, by Dept. Pub. Wks., sewerage works in various streets in Dorchester. $25,000. J. H. Sullivan, comr.

Mass., Cambridge—(br. Boston)—Sept. 23, by Pub. Buildings Dept., City Hall, 1 story, rein.-con. offal receiving building, Raymond St. $65,000. Blackall, Clapp & Wittemore, 31 West St., Boston, archts.

N. Y., St. George — Sept. 21, by J. A. Lynch, pres. Richmond Boro, Boro Hall, sewerage system in Linoleumville; temporary storm water system in Victory Blvd.; also granite block paving area 2 ft. wide adjoining trolley tracks on Richmond Terrace.

N. J., Hawthorne—Sept. 30, by Boro Comrs., J. A. Shea, clk., School 1, Lafayette Ave., sewerage eystem, H. J. Harder, 129 Market St., Paterson, engr., adv. E. N.-R. Sept. 15.

Ky., Louisville—Oct. 7, by Commissioners of Sewerage, M. H. Crawford, chn., Bd. of Trade Bldg., 3rd and Main Sts., Emerson Street Sewer, Contr. 35. J. B. F. Breed, ch. engr.

O., Cleveland—Sept. 21, by City, covered sludge drying beds and storm drain in Southerly Sewage Disposal Plant. G. B. Gascoigne, Leader Bldg., engr.

O., Delphos—Nov. 15, by Bd. Control, sewage filtration plant. $185,115.

O., Willowick — Sept. 24, by Village, sewers in Vine Street Dist. $125,000. Sterling Eng. Co., 7016 Euclid Ave., Cleveland, engr.

Ind., Princeton—Sept. 26, by City, 2 mi. sewers in various streets. $100,000. Private plans. Address City Clerk, Princeton.

Mich., Halfway — Sept. 21, by A. J. Wendt, village clk., 13,604 ft. 18- to 66-in. vitr. or concrete sewer, etc. in Sewer Dist. 3; and 29,136 ft. 12- to 37-in. sewers, etc. in various streets. H. R. O'Mara, Halfway engr.; adv. E. N.-R. Sept. 15.

Ill., Chicago—Sept. 22, by M. J. O'Brien, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., Salt Creek Intercepting Sewer, Contr. 2; adv. E. N.-R. Sept. 15.

Mo., St. Louis — Sept. 27, by Bd. Pub. Serv., 208 City Hall, two 25 x 29 ft. rein.-con. arch sewers, etc. in Sect. D of River Des Peres Project. $3,071,000. W. W. Horner, 300 City Hall, engr.

Tex., Amarillo—Taking bids 2½ mi. 6- to 18-in. vitr. or concrete sewer in San Jacinto, Roberts Pl., Country Club and Old Town additions. $100,000. H. B. Jones, city engr.

Tex., Houston—Oct. 19, at office of City Secretary, monolithic concret sewers, etc., in Reinermann St., etc. O. F. Holcombe, mayor, adv. E. N.-R. Sept. 15.

Okla., Hobert—Sept. 21, by C. R. Williams, city clk., 14,500 ft. 8 and 10 in. vitr. clay sewers, etc. in sewer Dists. 5 and 6.

Ont., Toronto—Sept. 27, by T. H. Foster, mayor, ½ mi. concrete or brick trunk sewer in Eglinton, Tyrol and Ingwell Aves. $100,000. R. C. Harris, City Hall, engr.

B. C., Point Grey — See "Contracts Awarded."

Contracts Awarded

Mass., Beverly—South Essex Sewerage Dist., Fort Ave., Salem, pumping station, inlet and sewers in various streets here, to Engineering Serv. & Constr. Co., 220 Devonshire St., Boston, $27,209. Noted Aug. 18.

Mass., Wellesley — Sewers in various streets, to A. Cefalo, 316 Belgrade Ave., Roslindale, $19,000. Noted Sept. 1.

Pa., Phila.—Dept Pub. Wks., Bureau of Engineering, to D. Delisa, 4842 North Leithgow St., branch sewer in Bouvier St. $7,978, Ontalauna St. $2,469, Sprague St. $3,069, and Willard St. $4,434; to S. Vallone & Co., 1720 South Chadwick St., Chancellor St. $6,584; to A. Bonitatibus, 300 Mt. Pleasant Ave., Clivedon St. $7,500; to A. Mattia, 310 North 65th St., 4th St. $1,954, Redfield St. $5,367, Graham St. $2,884, and Salford St. $2,136; to A. Perna & Son, 752 South 10th St., Hermitage St. $6,888, and Lawnton St. $7,856; to O'Neill Co., 127 East Mermaid St., Maywood St. $7,374 and Medary St. $4,708; to Vattieri & Pontarelli, 523 Rising Sun Ave., 17th St. $16,574; to E. F. Bennis, 825 East Washington Lane, 77th Ave. $7,416; to Mundy Paving & Constr. Co., 226 South Warnock St., Lyndenham St. $2,853; to V. S. Campellone, 3856 North 10th St., Van Kirk St. $10,104; and to Hamilton Co., Green and Cheltenham Aves., Washington Lane $17,343. Grand total $125,491. Noted Aug. 18.

N. C., Wilson—For 33,200 lin.ft. 2- to 18-in. vitr. sewers in various streets, to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, $38,000. Noted Aug. 11.

Ky., Southgate—City Clerk, 22,700 ft. 6- to 10-in. vitr. clay sewers in various streets, to J. B. McLean, York St., Newport, $70,058. Engrs. est. $80,000. Noted Sept. 8.

O., Akron—W. F. Peters, dir. Pub. Serv. 78,960 ft. 8- to 24-in. vitr. clay and 7,690 ft. 30- to 75-in. segmental block trunk and lateral sewers, etc. in Arlington St. et al., to Shullo & DeLuca Constr. Co., 140 North Summit St., $204,258. Engrs. est. $273,500. Noted July 21.

O., Cleveland—Cuyahoga Co., 10,000 ft. 8- to 30-in. tile sewer in Elmwood Rd., to J. B. Lynn Constr. Co., 16311 Saranec Rd., $26,594.

O., Willowick—For 1.5 mi. sewers in 6 streets, to A. Marra Co., Engineers Bldg., Cleveland, $95,073.

Ill., Dalton—For 8- to 24-in. vitr. tile and 24- to 84- in. concrete sewer in various streets, to Pastoret-Dorsey-Barrett Co., Duluth, Minn., $230,264. This corrects report in July 21 issue.

Mich., Detroit—Dept. Pub. Wks., Lateral Sewers 4840, 4842, 4850, 4852, and 4846, to J. Rossi, 4148 Seneca Ave., $86,681; Laterals 4847, 4821, 4851 and 4884, to United Sewer Corp., 7323 Emanon Ave., $71,008; Lateral 4857, to J. Monte, 15905

Constr. News page 130

. . . answering your Questions regarding High-Early-Strength Concrete

QUESTION	ANSWER
1—What is *High-Early-Strength* Universal Concrete?	Concrete with a *3-day* strength equal to the *28-day* strength of ordinary concrete.
2—Are special materials and equipment needed?	No. It is made with the *usual* materials, *usual* labor, *usual* equipment and standard Universal cement, all applied according to thoroly tested methods.
3—What is its chief advantage?	Saves time! Concrete for foundations, buildings, sidewalks, pavements and improvements of all kinds is made ready for use in *3 days* instead of *3 weeks*.
4—Is there any additional important advantage?	Yes. Such concrete not only has a higher *early* strength, but also a greater *ultimate* strength and therefore is *permanently* better and stronger than ordinary concrete. (See diagram.)
5—Is its use restricted to certain kinds of jobs?	No. Because it may be made as workable as desired, *High-Early-Strength* Universal Concrete is used for any and all kinds of concrete work.
6—Has *High-Early-Strength* Universal Concrete been fully tested?	Yes. Thousands of laboratory tests, years of experiment and hundreds of actual jobs prove the value of *High-Early-Strength* Universal Concrete.
7—What other advantages does *High-Early-Strength* Universal Concrete offer?	It is unnecessary to stock extra brand of material as *High-Early-Strength* concrete is obtained with the *usual* materials, *usual* labor, *usual* equipment and the same quality Universal cement as used for ordinary construction.
8—Where can I get detailed information on *High-Early-Strength* Universal Concrete?	Full details for use on any concrete work will be sent promptly on receipt of the coupon below.

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High-Early-Strength concrete "E" made by using special methods and standard Universal cement is *permanently* better and stronger than concrete as ordinarily produced as shown in the diagram. More detailed information furnished promptly on request. Just use the coupon.

Name .....

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210 South La Salle Street, Chicago
Without obligation, please send me detailed information on methods of securing strong concrete in 3 days with the usual materials and equipment.
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Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Sewers (Continued)

Welland Ave., $17,200; and Lateral 4845 to Dept. Pub. Wks., City Hall, $4,345. Grand total $179,234. Noted June 9.

Mich., Detroit—Dept Pub. Wks., Fisher Ave. Storm Sewer in Fisher Ave., to Lennane & McIlvenna, 7777 West Chicago Blvd., $579,979; and Connors State Fair Arm, Connors Creek Sewer, to Central Contg. & Eng. Co., 17576 Wyoming Ave., $195,327. Noted Sept. 1.

Mich., Detroit—Dept. Pub. Wks., City Hall, to S. J. Fattore, 1118 Lafayette Bldg., Griggs-Curtis Arm, Sect. 1, $38,489; to DiPonio Constr. Co., 15344 Wabash Ave., Seven Mile Rd. Arm, East, Sect. 1 Hubbell Ave. Sewer $43,639; to Ianni Constr. Co., Transportation Bldg., Avon Avenue Arm, north of Grand River Ave. Sewer $24,623; to Central Contg. & Eng. Co., 17576 Wyoming Ave., Grand River Ave., East Berg Rd. Sewer $34,678; to Jeynes & Son, Woodmere Ave., Pembroke Ave. Arm, East Hubbell Sewer, $152,170; to J. Rossi, 4148 Seneca Ave., Lateral Sewer 4840 $35,067, Lateral Sewer 4842 $16,750, Lateral Sewer 4850 $20,000, Lateral Sewer 4852 $8,000, and Lateral Sewer 4846 $6,865; to United Sewer Corp., 7323 Emanon St., Lateral Sewer 4847 $3,458, Lateral Sewer 4821 $48,000, Lateral Sewer 4851 $6,600, and Lateral Sewer 4884 $13,550; to J. Monte, 15905 Welland Ave., Lateral Sewer 4857 $17,200, and Lateral Sewer 4835 $18,725; to Dept. Pub Wks., City Hall, Lateral 4845 $4,345; to Western Constr. Co., 5123 Wesson Ave., Lateral Sewer 4844 $34,970, Lateral 4862 $2,900, Lateral 4863 $3,778, Lateral 4864 $2,400, and Lateral 4884, $7,550; to B. Cornacchia, 17644 St. Louis st., Lateral 4861 $4,515, and Lateral 4865 $5,714; to F. DiCicco & Son Co., 7 East Grand Ave., Lateral 4881 $3,639; and to A. Rossi, 5307 Pennsylvania Ave., Lateral 4868 $5,493. Grand total $589,248.

Ia., Sutherland — Sewage disposal plant with Imhoff tank, trickling rock filters, dosing chamber, sludge bed and 4,500 ft. 12 main sewer, etc., to Royer Constr. Co., 1322 10th St., Des Moines, $16,950. Noted June 23.

Kan., Kansas City — Sewers in West Argentine Sewer Dist., to Brown Bros., 32nd and Barber Sts., $30,400. Noted Aug. 4.

Tex., Harlingen—For 21,300 ft. 18-to 48-in. sewers in various streets, to Panhandle Constr. Co., P. O. Box 481, Lubbock, $84,713. Engrs. est. $90,000. Noted Aug. 11.

Tex., Houston—Sewers in Roanoke and Clinton Sts., to Walker & Elder, San Antonio, $38,129.

Tex., San Benito—For 28 and 42 in. Monolithic sewer in various streets, to Agar & Gentry, San Benito, approximately $25,000.

Okla., Tulsa—Extending 8,400 ft. 36- to 72-in. rein.-con. sewers in Storm Sewer Dist. 6, to Standard Paving Co., 1742 East 6th St., $46,787. Engrs. est. $52,000.

Ore., Portland—Approximately 6,054 ft. 6- to 15-in. sewers, etc. in Russell St. and Mallory Ave., to Sttergren Bros. & Lind, Portland, $33,766. Engrs. est. $40,078.

Calif., Hawthorne—Sewer in Wilbur Ave. between West Hawthorne Ave. and west city limits, to G. H. Oswald, 366 East 58th St., $55,158.

Calif., Los Angeles—Los Angeles Co., main trunk sewer in Sanitation Dist. 5 between Strawberry and Western Ave., to C. and K. Thompson, 701 Brokman Bldg., $232,102.

Calif., Los Angeles—Sewer in Fox Hills Dr. between Missouri and Lauriston Aves., to J. Chutuk, 343 Wilcox Bldg., $40,844. Engrs. est. $51,834.

Calif., Oakland—Concrete culvert and vitr. sewerage system in Shafter Ave. extension between Bway. and Presley Way, to A. F. Anderson, 1093 Longeridge Rd., $27,160. Noted Aug. 25.

Ont., Leaside—For 2 mi. vitr. tile sewers in various streets, to R. H. McGregor, Sammon Ave., Toronto. $33,839. Engrs. est. $35,000.

Ont., Toronto—For Sects. A and B North Toronto Sewerage System, incl. brick and concrete sewers in tunnel, to J. Maguire Constr. Co., 964 Mt. Pleasant Rd., $41,447. Engrs. est. $40,000.

B. C., Point Grey—Will install sewers in imperial street drainage area, by day labor. $39,925. W. B. Greig, 5851 West Boulevard, Vancouver, engr.

B. C., Vancouver—Vancouver Dist. Joint Sewage Bd., 500 Beatty St., to Evans, Coleman & Evans, foot of Columbia Ave., 4220 bbl. cement at $2.80 per bbl., 50,000 lb. ⅜ in. deformed steel $0.03225, 100,000 vitr. bricks $50.50 per M, 5,600 ft. 8 in. drain tile $139 per M, to Tynmore Sand & Gravel Co., North Vancouver, 3,050 cu.yd. washed sand and gravel $1.90; to Champion & White, Main St., 700 cu.yd. pump sand $2; and to Vancouver Eng. Wks., 6th Ave. 40 c.i. manhole covers $14.20 each. Engrs. est. $42,460.

Waste Disposal

Proposed Work

N. J., West Englewood — Bd. Council West Englewood & Teaneck Twps., plans incinerator. $80,000. Private plans.

Contracts Awarded

N. J., New Brunswick — For 1 story, 50 x 80 ft., brick and concrete incinerator, 80 tons capacity every 8 hrs., to Nye Odorless Crematory Co., Georgia Life Bldg., Macon, Ga., $106,460. Noted Aug. 11.

Bridges

Proposed Work

Mass., Lawrence—Boston & Maine R.R., W. J. Backes, ch. engr., Boston, made plans steel and rein.-con. bridge over railroad tracks, on Salem St., in South Lawrence; and rebuilding steel rein.-con. bridge, on South Union St., here. $50,000 or more.

New Jersey — Bd. Freeholders Passaic Co. (Paterson), and Bergen Co. (Hackensack) plan bridge, on 2nd St. between Passaic and Wallington. $25,000. W. Beswick, Garfield, chn.

Pa., Pittsburgh—Dept. Pub. Wks. making plans reconstructing Viaduct 2, also constructing Viaduct 3, incl. ramps and appurtenances on Blvd. of Allies. $550,000. Dept. Pub. Wks., City County Bldg., engr.

La., New Orleans—Commission Council takes bids about Oct. 15, 2 span 56 ft. rein.-con. bridge over 17th St. Canal, on South Claiborne Ave. B. Vallas, City Hall, engr.

O., Cleveland—Cleveland Union Terminal Co. Ulmer Bldg., soon lets contract 600 ft. rein.-con., concrete and steel bridge, 60 ft., on Bway.; also 3,000 ft. concrete and steel bridge, 60 ft. over Eagle Ave. H. D. Jouett, Ulmer Bldg., engr.

O., Woodsfield — Monroe Co. soon takes bids bridge in Salem Twp. $35,348.

Ark., Dardenelle—State Hy. Comn., Little Rock, rejected bids Aug. 30, steel and rein.-con. bridge over Arkansas River, on Federal Aid Project 244-A, here, for State Hy. Dept., Little Rock, Yell Co. (Dardenell) and Pope Co. (Russellville). Will readvertise. Noted Aug. 25.

Texas — A. C. McFarlane, Galveston, making preliminary plans 1,000 ft. open span steel and concrete bridge, 20 ft., connecting Galveston Island and Port Bolivar. $300,000. J. W. Billingsley, Interstate Bldg., New Orleans, La., engr.

Okla., Eufaula — McIntosh Co. making preliminary plans 3 span 400 ft. steel truss bridge on piers over Canadian River. $125,000. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Okla., Sparks—State Hy. Dept., Oklahoma City, made preliminary plans 3 span 300 ft. steel truss bridge on piers over Deep Fork Creek, Lincoln Co., near here. $60,000. C. R. Mandigo, Capitol Bldg., Oklahoma City, engr.

Wash., Mt. Vernon—Comrs. Skagit Co. take bids about Sept. 29, replacing timber bridge with 240 ft. steel span, etc., over Skagit River, near here, $40,000. E. L. Knapp, Mt. Vernon, engr.

Wash., Seattle—Plans 1,700 ft. rein.-con. bridge, 35 ft. over West Water Way,. $677,000; also timber bridge,. on Lawton Way between 15th and 20th Aves., $105,000. W. C. Morse, city engr.

Bids Desired

Mass., Cambridge (Boston P. O.)—Sept. 19, by City, concrete bridge over Broad Canal. $25,000. L. H. Hastings, city engr.

Virginia—See "Streets and Roads."

Alabama—See "Streets and Roads."

Georgia and South Carolina—Sept. 20, by State Hy. Dept., East Point, Ga., and State Hy. Dept., Columbia S. C., 3 fixed steel span bridge across Savannah River, on Greenwood and Anderson Rd., at Fureys Ferry 15 mi. above Augusta. W. F. Tompkins, Maj. Corps. of Engineers, Post Office Bldg., Savannah, dist. engr.

La., New Orleans—Oct. 4, at office Dept. Pub. Finances, Purchasing Div., City Hall, superstructure electrically operated plate girder swing bridge across New Basin Canal, at South Claiborne Ave., adv. E. N.-R. Sept. 15.

Tennessee — Sept. 23, by State Dept. Highways & Pub. Wks., Nashville, one 100 ft. steel, one 40 ft. and one hundred 26 ft. concrete girder span bridge, incl. 777,000 lb. deformed steel bars, 144,500 lb. fabricated structural steel, 30,357 ft. concrete piles, etc. over Obion River, on Obion-Trimble Rd., State Highway 3, Obion Co. C. N. Bass, highway comr.

Ind., Indianapolis—Sept. 16, by Bd. Comns. Marion Co. Bridge 835 over Eagle Creek, on Wall St. Pike, Wayne Twp., $34,406, Bridge 836, on Glens Valley Rd. at Shannons Lake, on Wall St. Pike, Perry Twp., $2,998. H. Dunn, aud.

Illinois—Sept. 21, by State Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, two 35 ft. spans rein.-con. girder bridges on Route 7, Sect. 4-BL, Henry Co.; one 50 ft. and two 30 ft. spans rein.-con. girder bridge, also two 100 ft. and one 150 ft. rein.-con. substructure on Route 10, Sect. 36-B, two 100 ft. and one 150 ft. span steel superstructure on Route 10, Sect. 36-C, all Vermillion Co.; 28 ft. span rein.-con. slab bridge also 30 ft. and 77 ft. rein.-con. bridge on Routes 122 and 123-B, Mason Co.; 35 ft. and two 40 ft. span rein.-con. girder bridges on Route 126 and 116-B, Montgomery Co.; two 24 ft. and 28 ft. span rein.-con. slab, two 35 ft. and two 45 ft. span rein.-con. girder bridges on Routes 142, 115-B, and 116-B, all Hamilton Co.; 35 ft. rein.-con. girder bridge and 100 ft. rein.-con. substructure on Route 142, Sect. 124-B, and 100 ft. steel superstructure, on Route 142, Sect. 124-C, both Saline Co.; four 35 ft. and three 24 ft. span rein.-con. slab and girder bridges, on Route 64, Sects. 130 and 131-B, Du Page Co. F. T. Sheets, Highway engr.

Iowa — Sept. 20, by State Hy. Comn., Ames (**F.A.P. means Federal Aid Project and B.P. Bridge Project**) 80 x 20 ft. pony truss bridge on B.P. 153, Greene Co.; 40 x 20 ft. I-beam bridge and 16 x 24 ft. I-beam bridge with wood structures, and 60 x 20 ft. pony truss bridge and 6 culverts on F.A.P. 14, Harrison Co.; 80 x 20 ft. pony truss bridge with two 40 x 20 ft. I-beam approaches on B.P. 103, Howard Co.; 130 x 20 ft. high truss bridge with two 40 x 20 ft. I-beam approaches on F.A.P. 230, Linn Co.; 40 x 20 ft. I-beam bridge with two 32 x 24 ft. I-beam approaches; one 40 x 20 ft. skew I-beam bridge with 5 ft. sidewalks, 50 x 20 ft. pony truss bridge addition, two 32 x 24 ft. I-beam bridges, three 32 x 24 ft. I-beam bridges, and 160 x 20 ft. high truss bridge with six 40 x 20 ft. I-beam approaches and 2 culverts, on F.A.P. 276 and 303. Tama Co.; 45 Culverts and extensions on B.P. 538 and F.A.P. 212, Franklin Co.; also 35 culverts on F.A.P. 20, Monroe Co. R. E. White, highway comr.

Kan., Eureka—See "Streets and Roads."

Nebraska—See "Streets and Roads."

Ark., Dardanelle—Sept. 29, by State Hy. Comn., Little Rock, 2,045 ft. steel and concrete bridge over Arkansas River, on Federal Aid Project 244-A, Pope and Yell Counties, here. D. H. Blackwood, chn.; adv. E. N.-R. Sept. 15.

Texas—Washington Co. (Brenham) and Waller Co. (Hempstead) taking bids steel and concrete bridge across Brazos River, on Highway 20 between Washington and Waller Counties. $315,000. Address State Hy. Dept., Austin, or S. A. Bracher, co. engr. Washington Co.

Tex., San Antonio—Sept. 30, by City Engineering Dept., 1 span, 90 ft., rein.-con. bridge across San Antonio River, on Martin St. $35,000. I. Ewing, city engr.

Calif., Hanford — E. F. Pickerill, clk. Kinks Co., taking bids 360 ft. cresoted piling and treated timber bridge over Kings River. R. May, Hanford, co. surv.

Contracts Awarded

Mass., Springfield — Bd. Water Comrs., 32,740 lin.ft. 48 and 54 in. pipe line from Provin Mountain Reservoir to Springfield, Contr. 8, to D. O'Connell's Sons, Inc., Holyoke, $536,810; and river crossing, Contr. 9, to Merritt, Chapman & Scott Corp., 17 Battery Pl., New York City. $346,375.

Connecticut—J. A. Macdonald, Highway Comr., Hartford, one 60 ft. span steel and concrete bridge over Nonewang River, in Woodbury, to L. E. McLaughlin, Inc., 217 Jefferson Ave., New London, $28,102; concrete bridge over Rooster River at Fairfield, to J. Mariani, 106 Hobart St., New Haven, $5,867; and Hollow bridge, 60 ft. span rigid frame, native stone approaches over Farmington River, at Hartland, to Miller Bros. Constr. Co., 151 Earl St., Hartford, $16,493. Grand total $50,462. Noted Aug. 11.

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Advantages of Independent Concrete Pipe Sewers

from the ENGINEER'S Point of View

Permanency and economy of concrete pipe sewers are proved by long and successful service.

Pipe built locally—
The special pipe plant becomes a "Home industry." Uses local labor and materials wherever possible. Benefits local business.

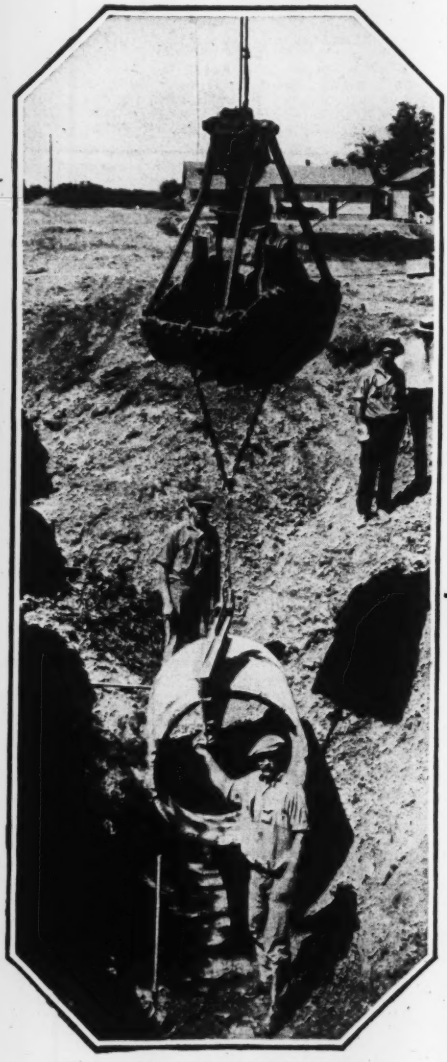
Inspection is facilitated—
Materials, workmanship and pipe units are tested and inspected at every stage of construction.

Pipe is low in cost—due to the economies of "Independent" advanced methods of manufacturing pipe.

Entire joint is visible for inspection, until trench is backfilled.

Completed sewer is strong, tight, permanent and efficient. Provides free flow and maximum capacity. Endures for generations, with little or no upkeep.

Let us send you engineering data.



Placing Independent Concrete Sewer Pipe at Lansing, Mich. One machine does the digging, laying and back-filling.

from the CONTRACTOR'S Point of View

Building the pipe locally—on the job or nearby, assures prompt delivery along the line of work, ready for the construction crew to lay.

"Recessed" Joints make the pipe easier to lay. Lower half of joint is sealed inside the sewer—upper half of joint is filled on top of pipe.

Pipe can be laid easily even where water, caving soil, or other difficult trench conditions are encountered.

Laying can follow excavating closely, and back-fill can be made immediately after pipe joints are sealed, if required. Often one machine can do the three operations.

Finished sewer means a profitable job, and a satisfied "customer."

Get our estimates on your sewer projects.

INDEPENDENT CONCRETE PIPE CO., 202 N. West St., Indianapolis, Indiana.

INDEPENDENT
Reinforced Concrete Pipe

Bridges (Continued)

N. Y., New Rochelle — Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, bridge over New Rochelle Park Creek, connecting Glen Island and New Rochelle mainland, here, to J. D. Walsh, 132 4th St., Long Island City, $111,955. Noted Aug. 11.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, Bridge Div., 162 ft. concrete encased steel bridge, 66 ft. over Phila. & Reading R.R. tracks, at Linden Ave., to Robbins Contg. Co., Inc., 1615 Summer St., $128,948. Noted Aug. 18.

Pa., Phila.—Dept. Pub. Wks., Bureau Engineering, Bridge Div., 65 x 96 ft. concrete encased steel bridge on rein.-con. abutments and pier over Chester Branch of Reading Co., on line of 61st St., to G. F. Dobbin, 1020 South 47th St., $174,344. Noted Sept. 1.

Va., Danville—City, C. B. Strange, aud., bridge over Dan River, on Main St., to Concrete Steel Bridge Co., Clarksburg, W. Va., $194,000.

Va., South Norfolk (Norfolk P. O.)—Norfolk-Portsmouth Bridge Corp., Park and Truxton Sts., Norfolk, C. M. Jordon, pres., substructure for Norfolk-Portsmouth Bridge, 1,000 ft. steel truss span with lift span, and 665 ft. rein.-con. trestle over southern branch Elizabeth River, here, to Hardaway Contg. Co., Columbus, Ga., $155,-050; and superstructure, to Atlantic Bridge Co., Greensboro, N. C., $315,534. Noted June 16.

O., Cleveland—Cuyahoga Co., rein.-con. bridge over Ridge Rd., to M. S. Nelson, United Bank Bldg., $29,030. Noted Aug. 11.

Indiana—State Hy. Comn., Indianapolis, to D. Jenkins, 501 Gilbert Ave., Terra Haute, three bridges on Road 41, Contr. 145, Lake Co., $23,342; to Wrightsman & Gray, Mooreland, 2 bridges on Road 46, Contr. 156, Owen and Monroe Counties $8,806, and 1 bridge on Road 3, Route 146, Delaware Co. $6,073; to Yost Bros., Decatur 4 bridges on Road 3, Contr. 147, Allen Co. $27,509; to I. E. Smith Constr. Co., Richmond, 1 bridge on Road 27, Contr. 149, Wayne Co. $17,406, and 1 bridge on Road 27, Contr. 151, Jay Co. $15,064; to Clements & Doale, Williamsburg, 1 bridge on Road 29, Contr. 152, Clinton Co. $5,057; to E. F. Apple, Indianapolis, 2 bridges on Road 32, Contr. 153, Madison Co., $20,869; to Vincennes Bridge Co., Vincennes, 1 bridge on Road 39, Contr. 154, Clinton Co. $9,677, 3 bridges on Road 67, Contr. 161, Morgan Co. $16,499, and 1 bridge on Road 46, Contr. 157, Brown Co. $15,740; to Davis Constr. Co., Tipton, 3 bridges on Road 41, Contr. 155, Newton Co. $28,944; and to Ryan & Ryan, Washington, 2 bridges on Road 56 Contr. 159, Washington Co., $17,-239. Grand total $212,225.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, to A. O. McCoy, Illinois, bridge on Route 10, Sect. 16-B, Sangamon Co. $13,525, to Chernus Constr. Co., Sioux City, Ia., three 38 ft. span concrete girder bridge on Route 49, Sect. 135-B, Iroquois Co. $16,735, 31 ft. and 50 ft. span concrete girder bridge, and 20 ft. concrete slab bridge on same road, Sect. 136-B $15,744, also 22 ft. and 28 ft. span concrete slab bridge and 40 ft. concrete girder bridge, on Route 182, Sect. 101-B, Marion Co. $20,745, to Stephen Bros., 612 Endicott Bldg., St. Paul, Minn., 55 ft. span concrete girder bridge on Route 72, Sect. 113-B, Carroll Co., $11,045, to M. R. Deyo Mfg. & Constr. Co., 801 West Washington St. E., Peoria, 30 ft. concrete girder bridge and 24 ft. span concrete slab bridge, on Route 78, Sect. 134-B, Fulton Co., $32,050, to G. C. Fairclo, Champaign, four 50 ft. span concrete girder bridge on Route 89, Sect. 115-B, Bureau Co., $22,395; to Zimmerly Bridge Co., Pairs, three 40 ft. span concrete girder bridge and 28 ft. span concrete slab bridge, on Route 142-A, Sect. 101-B, Wayne Co., $17,610; to Herrick Constr. Co., Carlinville, three 45 ft. span concrete girder bridge and concrete substructure for two 170 ft. steel and two 59 ft. girder approach spans on Route 148, Sect. 129-B, Williamson and Franklin Counties, $29,683; to Stupp Bros. Bridge & Iron Co., Syndicate Trust Bldg., St. Louis, Mo., steel superstructure for two 170 ft. steel spans on Route 148, Sect. 129-C, Williamson and Franklin Counties, $6,239; to J. P. Lyon, Robinson, one 62 ft. span steel plate girder bridge with two 34 ft. concrete girder approach spans, on Route 12 Sect. 7-V, Clay Co., $23,736. Grand total $209,507.

Kan., Cordell—Rooks Co. (br. Stockton), two 50 ft. steel truss, one 40 deck girder and five 8 ft. multi box span bridges on Project 55-A, near here to Kelly & Johnson Constr. Co., Talmo, $17,596. Noted Aug. 4, under "Stockton."

Nebraska—See "Streets and Roads."

Mo., St. Louis—J. R. Scott, Jr., and T. J. Scott, Merchants Laclede Bldg., sub-structure 5,200 ft. rein.-con. and steel bridge, 40 ft. over Mississippi River, at Chain of Rocks Waterworks Station, to Union Bridge & Constr. Co., 903 Sharp Bldg., Kansas City; and superstructure for same, to Amer. Bridge Co., 1519 Liberty Central Bldg. Engrs. est. $2,500,000. Noted May 12.

Arkansas—State Hy. Comn., Little Rock, 175 ft. rein.-con. bridges and approaches over Mill Creek, Scott Co., and 226 ft. bridge over Fort Smith Rd. to O'Hagan McVicker Co., Kansas City, Mo., $32,948 and $31,683 respectively; bridge, grading, etc. on Thornton-Hampton, Rd., to D. H. Hoard, Little Rock, $42,277; and 200 ft. rein.-con. and steel bridge over St. Francis River, at Marked Tree, to Williams & Williams, Batesville, $111,645. Grand total $218,553.

Arkansas—State Hy. Comn., Little Rock, 4,200 lin.ft., rein.-con. trestles on Harahan Viaduct, Federal Aid Project 300-A, Crittenden Co., to Fuller Constr. Co., Little Rock, $450,339. Noted Aug 11.

Calif., Los Angeles — Bridge over Los Angeles River, on 4th St., to T. Kelly & Sons, 815 South Hill St., $206,755.

Dams

Proposed Work

Tex., Remount (mail Waco) — Marland Oil Co., Big Lake, making surveys dam across White Rock Creek, diverting 20,000 acre ft. water annually from junction of Brazos and Bosque Rivers, etc., McLennan Co., near here. $150,000. Private plans.

Calif., Los Angeles — City and Los Angeles Flood Control Dist., plan dam in Tujunga Canyon. City appropriates $3,-000,000 and District $1,600,000 toward cost.

Que., Ste Julienne—Gatineau Power Co., 180 St. James St., Montreal, soon takes bids developing Magnan Falls on Quareau River, incl. dams, powerhouse, etc. $1,-500,000.

Bids Received

Wash., Seattle—Bd. Pub. Wks., County-City Bldg., Sept. 9, constructing Diablo Dam, concrete arch type, on Skagit River, Whatcom Co., from Winston Bros., 801 Globe Bldg., Minneapolis, Minn., $2,546,338; from A. M. Guthrie & Co., Ry. Exch. Bldg., $2,770,830; and from Puget Sound Bridge & Dredging Co., 903 Sharp Bldg., $2,940,-400. Noted Aug. 11.

Railways

Proposed Work

Michigan — Dept. Street. Railways, St. Jean and Shoemaker Aves., Detroit, D. A. Smith, genl. mgr., making plans extending 1 mi. double track on Livernois Ave. from Davison to Fenkell Aves., also 1 mi. on Fenkell Ave. from Livernois to Wyoming Aves., in Detroit. $140,000. Private plans.

Texas — Clinton & Oklahoma Western R.R. Co., c/o F. Kell, pres., Wichita Falls, making surveys 94 mi. railway from state boundary in Hemphill Co. to Pampa in Gray Co. $3,000,000. Private plans.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

La., New Orleans — Orleans Levee Bd., New Court House, made preliminary plans straightening out and raising St. Andrew St. Levee, Orleans Co. $50,000. R. B. Kohnke, New Court House, engr.

Ark., Atkins—Pope Co. Levee Dist., E. A. Williams, atty., soon takes bids repairing 1½ mi. breaks in levee, 80,000 cu.yd. excav., etc. $40,000. E. Hale, Natl. Bank Bldg., Pine Bluff, engr.

Ark., Dardanelle—Carden Bottoms Levee Dist., D. C. Love, pres., soon takes bids rebuilding Caden Bottoms Levee, $60,000. E. Hale, Natl. Bank Bldg., Pine Bluff, engr.

Tex., Houston — See "Buildings — Industrial."

Tex., Pryor—City, c/o W. R. Terpering, secy., and Fort Bend Co., making preliminary plans irrigating approximately 10,000 acres land. $100,000. Terrell Bartlett Engineers, Calcasieu Bldg., San Antonio, engrs.

Tex., Weslaco—See "Unclassified."

Bids Desired

Mass., Boston—Sept. 23, at office Metropolitan Dist. Water Supply Comn., 24 School St., clearing approximately 30 acres and excavating 20,000 cu.yd. for 1 mi. open channel, in Hopkinton. F. E. Winsor, ch. engr. comn.

New York—Sept. 23, by M. Cosgrove, comr. Docks, Pier "A", foot of Battery Pl., New York City, dredging in Manhattan and Brooklyn Boros.

Miss., Greenwood — Sept. 26, by Comrs. Big Sand D. D. of Le Flore and Carroll Counties, c/o E. L. and H. C. Mounger, attys., Greenwood, 42,000 cu.yd. fill from canal, 10,000 cu.yd. levee repairs, 300 ft. ditch excav., etc.

Mo., Bloomfield—Sept. 20, by S. Wilson, engr. D.D.5, Stoddard Co., removing, etc. 173,803 cu.yd. earth from main ditch D.D.5.

Calif., Tracy—See "Contracts Awarded."

Que., Riviere du Loup—Sept. 16, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., reconstructing and repairing wharf, here. $20,000.

Que., Roberval—Sept. 22, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., reconstructing breakwater, here. $15,000.

Contracts Awarded

Mass., Marlboro — Sisters of St. Anne Academy, Broad St., grading and two 185 ft. concrete retaining walls, 12 ft. high, and two 300 ft. walls, 10 ft. high, Broad St., to T. Fahey, 16 South St.

Mass., Medford (br. Boston)—For 360 ft. rein.-con., retaining wall, Fulton St., to T. Mulcare, Inc., 64 Western Ave., Brighton.

Louisiana—Bd. State Engineers, New Orleans Court Bldg., New Orleans, to W. A. Marcotte, Moreauville, levee work, at Coco Point, Line A, $3,889; to Clopton & Rushing, Melville, at Norman $5,464, and Bowden $5,272; to Picard Constr. Co., Hicks Bldg., New Orleans, Firmont $738, Catholic Church $4,920, Bennett $16,875 and Zimmer $3,444; to E. E. Rabalais, Bunkie, Marshall $10,000 and St. Romain $2,375; to G. Hoggsett, Mansura, Ellis Coco $560 Cain $3,900; to H. J. Mayeaux, Moreauville, Willard Coco $510, all above on bank Bayou $3,600, Tilden School House $490, and Barre des Glaizes in Avoyelles Parish. Grand total $61,477.

Ill., Lockport—Clerk Sanitary District of Chicago, 910 South Michigan Ave., Main Channel Wall, near here, Contr. 3, to Green & Sons Co., 6 North Michigan Ave., Chicago, $769,500. Noted Aug. 4.

Calif., Tracy—Banta-Carbona Irrigation Dist. will line canal by district forces.

N. S., La Have — Dept. Pub. Wks., Ottawa, Ont., dredging Areas 1 and 2, Le Have River, here, to Beacon Dredging Co. Ltd., Halifax, $66,600.

N. B., Escuminac—S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, new breakwater, here, to K. McLaggan & Co., Devon, $48,000. Noted July 21.

Que., Varennes — S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, dredging channel and basin, here, to Les Chantiers Masseau, Sorel, $48,700.

Ontario — Dept. Pub. Wks., Ottawa, repairing harbor at Saugeen River, to R. M. Hunter, Kincardine, $32,000.

B. C., Victoria—Dept. Pub. Wks., Ottawa, Ont., dredging channel at Hospital Rock, here, to North Western Dredging Co. Ltd., Vancouver, $35,028.

Streets and Roads

Bids Desired

Massachusetts—Sept. 20, by Dept. Pub. Wks., Boston, W. F. Williams, comr., grading and bituminous macadam paving 8,150 ft. highway in Agawam.

Mass., Boston—Sept. 19, by Dept. Pub. Wks., J. H. Sullivan, comr., sheet asphalt or bitulithic paving various streets in Wards 11, 14, 15 and 18. $25,000.

Mass., Framingham — See "Contracts Awarded."

Rhode Island—Sept. 21, by State Bd. Pub. Roads, State House, Providence, bituminous macadam paving (penetration method) approximately 2.697 mi. Federal Aid Project 39, Contr. 2708, and rein.-con.

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NOT MERELY A MACHINE

But An Earning Power

STILL another customer writes that in addition to paying for itself in a short time, his Industrial is earning over $100.00 a day.

Wouldn't you be enthusiastic about your machine if it showed a profit at the end of each day of $100.00 or more?

Surely sturdy construction, ease of operation and speed contributed heavily to the profit making qualities of the Industrial on this work.

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Write for circular or let our representative point out some of the major features of the Industrial. Which will it be?

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New York City 50 Church St. | Philadelphia, Pa. Packard Building | Pittsburgh, Pennsylvania Federal Reserve Building | San Francisco, Calif. Monadnock Building

St. Louis, Mo. Railway Exchange Bldg.

Streets and Roads (Continued)

paving approximately 3.531 mi. Federal Aid Project 31, Contr. 2711.

Rhode Island — Sept. 21, by State Bd. Pub. Wks., Providence, grading and bituminous macadam paving highway in North Smithfield and Cumberland. To exceed $25,000. Noted June 23.

N. Y., Long Island City—Sept. 19, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and sidewalks on 74th, 137th, 49th (19th Ave.) and 59th (Holmes Ave.) Sts.; also sidewalks, etc. on 47th and 48th Aves.

N. Y., Long Island City—Sept. 21, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing, etc. Catalpa Ave., Fremont and Woodward (Ave.) Sts.; grading and sheet asphalt on concrete repaving Woodside Ave., etc.

N. Y., St. George — Sept. 21, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and bituminous concrete paving Watchogue Rd. from Jewett to Wolly Aves.

N. J., Hammonton—Sept. 26, at Town Hall, W. R. Seely, town clk., concrete curbing and sidewalks on various streets. J. A. Baker, town engr.; adv. E. N.-R. Sept. 15.

Pa., Swissvale—Sept. 20, by Boro at office H. D. Caldwell, secy., improving February, Way, Milligan and Patterson Aves., 3,950 cu. yd. earth excav., 3,813 sq.yd. brick on 6 in. concrete paving, etc. A. Hutchinson, boro engr.

Maryland — Sept. 20, by State Roads Comn., Baltimore, concrete paving 1.33 mi. Contr. M-91, Montgomery Co.; amiesite paving 0.91 mi. Contr. S-4-A, Somerset Co. J. N. Mackall, chn.

Maryland — Sept. 20, by State Roads Comn., Baltimore, concrete paving 1.4 mi. Contr. M-82, Montgomery Co., and 1 mi. Contr. Q-41, Queen Anne Co.; also gravel-ing 2 mi. Contr. SM-40, St. Marys Co. J. N. Mackall, chn.; adv. E. N.-R. Sept. 15.

Md., Baltimore—Sept. 21, by Bd. Awards, curbing and sheet asphalt paving 5,870 sq.yd. Contr. 434; and concrete paving 6,200 sq.yd. Contr. 435. N. L. Smith, City Hall, acting highways engr.

Virginia—Sept. 27, by State Hy. Comn., Richmond, grading, bridging, surfacing, etc. Projects S-208-B, S-297-A, S-424-A, S-464-C and D, S-468, S-511 and S-512.

W. Va., Clarksburg—Sept. 22, by Harrison Co. Court, Bermudez hot mixed macadam surfacing 1.5 mi. Brushy Fork Rd., Simpson Dist., 2 mi. Marshville Rd., and 1 mi. Salem Rd., both Tenmile Dist. M. L. Loudin, co. clk.

W. Va., Harrisville—Oct. 4, by Ritchie Co. Court, clearing right-of-way, grading, etc. 2.16 mi. Pennsboro-Pullman-White Oak Rd., D. W. Shock, co. road engr.

W. Va., Wayne—Sept. 19, by Wayne Co. Court constructing 1.5 mi. Twelve Pole Creek Rd., 1 mi. Dock Creek Rd., both 22 ft., Cerodo Dist. H. Wiles, co. road engr.

Illinois—Sept. 21, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete, vitr. brick or bituminous concrete surfacing 8.65 mi. Route 122, Sect. 123, and 1.64 mi. Route 122, Sect. 124, both Mason Co. 5.99 mi. Route 126, Sect. 116 Montgomery Co., 5.57 mi. Route 130, Sect. 122 Jasper and Richland Counties, 5.39 mi. Route 142, Sect. 124 Saline Co., 3.68 mi. Route 148, Sect. 130 Williamson Co., 2.7 mi. Route 160, Sect. 135 Madison Co., and 0.71 mi. Route 78, Sect. 135 Fulton Co., grading 1.26 mi. Route 10, Sect. 36-A Vermilion Co., 1.26 mi. Route 10, Sect. 20-A, Pike and Scott Counties, 6.97 mi. Route 142, Sect. 115-A and 6.5 mi. Route 142, Sect. 116-A, both Hamilton Co., 0.85 mi. Route 142, Sect. 124-A Saline Co. F. T. Sheets, highway engr.

S. C., Lancaster—Sept. 28, by City, curbing, guttering, paving, etc. 103,000 sq.yd. various streets. H. S. Jaudon Eng. Co., Elberton, Ga., engrs.

Florida—Sept. 20, by State Roads Dept., F. A. Hathaway, chn., Tallahassee, surface treating on 8 in. Florida Lime rock paving, Project 659, Road 3, Clay Co.; clearing, grubbing and grading 8.83 mi. Project 722, Road 43, Jefferson Co.; and 110 ft. cresoted timber overpass, on Project 717, Road 28, Bradford Co. J. L. Cresap, highway engr.

Alabama — Oct. 5, by State Hy. Dept., Montgomery, concrete paving 2.44 mi. roadway from Ft. Deposit to Butler Co. line toward Greenville; paving and graveling 18.09 mi. roadway between Tuscaloosa and Eutaw, Tuscaloosa and Green Counties; chert surfacing 9.913 mi. roadway between Bessemer and Tuscaloosa Co. line towards Tuscaloosa, Jefferson Co.; gravel surfacing 17.15 mi. roadway between Brewton and Perdido Station Escambia Co., 12.25 mi. roadway between Perdido Station and Bay Miniette, Baldwin Co., 17,865 mi. roadway between Belleville and Monroeville, Conecuh and Monroe Counties; also bridges, etc. on roadway between Marion and Greensboro, Perry and Hale Counties. W. Finnell, hy. dir.

Ala., Birmingham — Oct. 10, by City Comn., grading, curbing, guttering, walks and 2 in. bitulithic on 6 in. concrete paving 5 blocks Finley Ave., 24 ft., $31,300; also grading and 2 in. bitulithic on 6 in. concrete paving 4 blocks same avenue, 30 ft., $27,-675. A. J. Hawkins, city engr.

Louisiana—Sept. 28, by State Hy. Comn., Baton Rouge, graveling 11.439 mi. Winnsboro-St. Joseph Highway, Federal Aid Project 180-B, Franklin Parish; and 14.074 mi. Alexanderia-Leesville Highway, Federal Aid Project 157-B, Rapides Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr.

Louisiana—Sept. 29, by State Hy. Comn., Baton Rouge, grading, graveling and broken stone paving 13.942 mi. Winfield-Olla Highway, Federal Aid Project 177-A, Winn Parish. N. W. Bowden, Reymond Bldg., Baton Rouge, highway engr.

Kentucky—Sept. 23, by State Hy. Dept., Frankfort, **(S.P. means State Project)**, surfacing 4 mi. Middleboro-Pruden Rd., S.P. 5-F Bell Co., 3.07 mi. Pineville-Clear Creek Springs Rd., S.P. 112-A Bell Co., 14.2 mi. Salyersville-Paintsville Rd., S.P. 34-D, Magoffin and Johnson Counties; grading, etc. 4 mi. Greenup-Fullerton Rd., S.P. 106-B Greenup Co., 4.5 mi. same road, Sect. C, and 13.106 mi. London-Manchester Rd., S.P. 28-A Laurel Co. E. N. Todd, highway engr.

O., Cincinnati—Sept. 23 (extended date), by Comrs. Hamilton Co., grading, guttering and concrete repaving, etc. 55,800 sq.yd. Cleves and Warsaw Rd. $406,345. E. A. Gast, Court House, engr. Noted Aug. 25.

O., Hamilton—Sept. 20, by E. E. Roll, clk. Butler Co., surface treating 63,304 ft. Millikin, D and Wood Sts., etc., in St. Clair Twp., 16-20 ft. $62,500. W. Willard, Court House, engr.

Ind., Terra Haute — Sept. 19, by Bd. Comrs. Vigo Co., grading, etc. Harve D. Holdaway et al., Rd., Fayette Twp., $17,-372; and William Dorman et al., Rd., Sugar Creek Twp., $45,094. J. Dreher, aud.

Iowa—Sept. 20, by State Hy. Comn., Ames **(F.A.P. means Federal Aid Project, and P.P. Primary Project)**, grading, paving, etc., 95,764 sq.yd. F.A.P. 251, Benton Co., 21 flume basins 16 intakes, etc., 16,560 sq. yd. F.A.P. 34, Keokuk Co., 10 flumes and 2 intakes, etc., 117,062 sq.yd. P.P. 489, Keokuk Co., 29 intakes, 23 flumes, etc., 89,647 sq.yd. F.A.P. 20, Monroe Co., 24 intakes, 15 flumes, etc., 189,401 sq.yd P.P. 545, O'Brien Co., 2 intakes, 5 flumes, etc., 8,002 sq.yd. F.A.P. 71, and 152,249 sq.yd. P.P. 544-A, both Washington Co., 17 flumes, 28 intakes, etc., 71,129 sq.yd. P.P. 451, Cedar, Scott and Muscatine Counties, 2 flumes, etc., grading 72,198 cu.yd. F.A.P. F-14, Harrison Co., and 231,716 cu.yd. P.P. 303, Tama Co.; 12,200 cu.yd. bridge fills in Sioux Co.; graveling 4,520 cu.yd. F.A.P. 261-B Powesheik Co., and 18,339 cu.yd. P.P. 519, Warren Co. R. E. White, highway comr.

Ia., Cedar Rapids — Sept. 19, by L. J. Storey, City Hall, grading and 7 in. concrete, asphaltic concrete, sheet asphalt, warrenite bitulithic or brick paving 10,183 sq.yd. Blake Blvd. R. W. Gearhart, City Hall, engr.

Michigan—Sept. 20, at office Houghton Co. Rd. Comn., Hancock, bituminous macadam surfacing 9.694 mi. State Trunk Line Rd. MO31-19, Contr. 1; and 2.523 mi. MO-31-18, Contr. 1, both 18 ft. for State Hy. Dept., Lansing. G. D. Tramp, Crystal Falls, resident engr.

Michigan—Sept. 21, by E. R. Benkert, resident engr., Port Huron, concrete paving 3.564 mi. Trunk Line Rd. 77-14, Contr. 1, St. Clair Co., 20 ft. for State Hy. Dept., Lansing.

Michigan — Sept. 22, at office Village Clerk, Verona, widening and concrete paving 0.588 mi. State Trunk Line Rd. MO-76-15, Contr. 1, Shiawassee Co., 20 ft., for State Hy. Dept., Lansing. R. W. Roberts, Saginaw, resident engr.

Michigan — Sept. 22, by C. L. Cowgill, resident engr., Plymouth, concrete paving 4.766 mi. State T. L. Rd. MO63-5, Contr. 2, Oakland Co., 20 ft., for State Hy. Dept., Lansing.

Michigan — Sept. 27, by H. C. Fleming, resident engr., Grand Rapids, two course graveling 5.982 mi. State Assessment Dist. Rd. 476, Montcalm and Ionia Counties, 9 ft., for State Hy. Dept., Lansing.

Kan., Eureka—Sept. 27, by Clerk Greenwood Co., grading, etc. 6.609 mi. Project 71, 28 ft. E. Christian, Eureka co. engr.

Kan., Eureka—Sept. 27, by W. D. Barrier, clk., Greenwood Co., grading, etc., 6.609 mi. Federal Aid Project 393-A, 28 ft., also constructing bridge 6 mi. from here, 53,670 lb. reinforcing, etc. E. Christian, Court House, engr. Noted June 30.

Kan., Great Bend—Oct. 11, by clerk Barton Co., grading, sand clay surfacing, etc., 13.555 mi. Federal Aid Project 383-A, 28 ft. L. L. Petticord, Court House, engr.

Nebraska—Sept. 22, by Dept. Pub. Wks., Lincoln, improving 14 mi. Project 97-C, Pawnee Co., 198,500 cu. yd. earth excav. and 132,400 cu. yd. overhaul; 8.9 mi. Project 246-C, Richardson Co., 200,000 cu. yd. sta. overhaul, 140,800 cu. yd. earth and 8,600 cu. yd. solid rock excav.; 10.6 mi. Project 254-A, Red Willow Co., 131,500 sq. yd. 3 in. sand and gravel, etc. and 5.5 mi. Project 245-B, Frontier Co., 68,900 sq. yd. sand and gravel, etc.; also constructing one 24 ft. I-beam bridge on Project 118-B, Jefferson Co. R. L. Cochran, state engr.

Tex., San Benito—Taking bids and open same about Sept. 24, alternate types paving 30 blocks business streets, 40- to 60-ft. $70,000.

Tex., San Antonio—Sept. 26, by Comrs. Bexar Co., asphalt surfacing 25 mi. South Flores, Mayfield, Quitana, and Culebra Rds., 18 ft., $30,000; 40 mi. Blanco, Moeglen, Vance-Jackson and Jackson-Keller Rds., $45,000; also 22 mi. Keller and Isom Rds., Woodlawn Cincinnati and San Pedro Aves., 18 ft. $25,000. G. H. Collins, San Antonio, co. engr.

Okla., Bartlesville — Sept. 19, by E. Sanderson, city clk., grading, curbing and 6 in. concrete paving 10,340 sq.yd. various streets. $32,000. E. D. Kirkpatrick, Bartlesville, engr.

Okla., Edmond—Sept. 19, by City Clerk, grading, curbing, guttering and graveling 17,200 sq.yd. Jackson Blvd. $37,375. F. H. Peckham, 227½ West Grand St., Oklahoma City, engr.

Okla., Prague—Sept. 23, by Newhouse, city clk., grading and 7 in. concrete paving 8,200 sq.yd. 11th and Main Sts. $26,010; Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Colorado—Sept. 22, by State Hy. Dept., Denver, grading, asphalt or concrete paving 1.959 mi. Federal Aid Project 2-R, Constr. Div. 5, Las Animas Co., L. D. Blauvelt, State Office Bldg., Denver, engr.

Nevada—Sept. 21, by Dept. Pub. Wks., Carson City, grading, etc. 9.46 mi. Route 3, Sect. D, Ormsby and Douglas Counties. S. C. Durkee, highway engr.

Wash., Kelso—Sept. 27, by Comrs. Cowlitz Co., grading, graveling, and constructing 140 ft. steel span bridge on Permanent Highway 13. F. C. Cramer, Kelso, engr.

Calif., Gridley — J. L. Lewis, city clk., taking bids grading and 1½ in. warrenite bitulithic 2½ in. asphaltic concrete paving 220,000 sq.ft. Washington St., etc. M. C. Polk, Chico, engr. Noted May 19.

Calif., Los Angeles—Sept. 26, by Supervs. Los Angeles Co., grading and concrete paving 4.56 mi. Riverside-Redondo Blvd. G. W. Jones, Hall of Records, engr.

Contracts Awarded

Mass., Boston — Granite block paving Longwood Ave., to B. E. Grant Co., 100 Floyd St., Roxbury, engrs. est. $25,000; sheet asphalt paving Columbus Ave., Wards 4 and 9, and Harrison Ave., Ward 8, to M. F. Gaddis, 6 Beacon St. $62,453, and Washington St., Wards 3, 8 and 9, to J. C. Coleman & Sons, 1620 Tremont St., Roxbury, $85,675.

Mass., Framingham—City will construct concrete paving 1,500 ft. Waverly St., by day labor. $30,000. S. Dyer, City Hall, engr.

Mass., Medford (br. Boston) — Mayor's Office, sheet asphalt paving various streets, to J. A. Gaffey, 19 James St., $51,377.

Mass., Medford (br. Boston)—Warrenite bithulithic resurfacing 2,200 sq.yd. Boston Ave., and 1,800 sq.yd. Warner St., to Coleman Bros., Inc., 245 State St., Boston. Noted Aug. 4.

Connecticut—J. A. Macdonald, highway comr., Hartford, macadam paving 6 mi. highway in Mansfield and Willington, and 8 in. waterbound macadam paving 14,350 ft. highway in New Milford and Sherman, also 5 mi. in Ashford and Easton, to Miller Bros. Constr. Co., 151 Earl St., Hartford, $449,239 and $95,281 respectively; 8 in. rein.-con. paving 6,587 ft. in Stonington, to N. Benvenuti, 74 Goshen St., New London, $74,705; 9 in. rein.-con. paving 7,026 ft. in Fairfield, to Osborne-Barnes Co., Odd Fellows Bldg., Danbury, $92,238; 8 in. waterbound macadam paving 10,090 ft. in Sherman, to J. De Micheil & Bros., 58 High St., Torrington, $95,969; 3 in. asphalt paving, etc., 6,000 ft. in West Hartford, to E. Balf Co., 173 State St., Hartford, $38,556; 3 in. bituminous macadam paving 16,900 ft. in South Windsor, and 3 in. waterbound macadam paving 12,820 ft. highway in Woodbury, to Lawton Constr. Co., Providence, R. I., $84,936 and $75,887 respectively; also 3 in. bituminous macadam

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paving 13,435 ft. in Enfield, and concrete paving, etc. 3,290 ft. in Suffield to Lane Constr. Co., 37 Colony St., Meriden, $71,049 and $18,699 respectively; 9 in. rein.-con. paving and repairs to Windsor Underpass in Windsor, to J. Mariani, 106 Hobart St.; New Haven, $12,961. Grand total $1,099,520. Noted Aug. 11.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading Autumn Ave., to J. J. M. Eng. Co., $4,118; Bedford Ave., to G. M. Mandato, 201 Neck Rd., $3,336; East 94th St., to J. V. Turecamo, 8706 Bay 12th St., $5,831; and Glenwood Ave., to Castle Bros., Johnson Pl., $22,713. Grand total $35,998. Noted Aug. 25.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, granite block paving Dikeman St., to M. J. Grant, 139 Potter Ave., Astoria $46,037, and Nassau Ave., to Leonard Paving Co., Woolworth Bldg., New York City $60,218; sheet asphalt paving Gravesend Ave., to B. Turecamo Contg. Co., 8706 Bay 12th St. $159,056, and Avenue U, to G. M. Mandato Contg. Co., 201 Neck Rd. $76,611. Grand total $341,922. Noted July 28.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, etc. 90th Ave., etc., to J. Frey $2,578, and 91st Ave., to C. Kurth, 9519 126th St., Richmond Hill $2,359; asphalt paving, etc. National Ave., to W. J. Fitzgerald, 547 West 45th St., New York City, $107,146; sheet asphalt paving, etc. Central and Farmers Aves., to Cleveland Trinidad Paving Co.; Flushing, $75,738. Grand total $187,821. Noted Aug. 18.

N. Y., New York—W. J. Flynn, acting pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., to C. D. Beckwith, Seneca Ave. and Edgewater Rd., bituminous concrete paving Lacombe Ave. $64,992; to Casper Helbock Co., Harlem River and 150th St., grading and asphalt block paving East 233rd St. $65,847, and to Regan Towers Co., 124 West 121st St., Lafayette Ave., $24,021; to Brusstar Constr. Co., Harlem River and 150th St., grading and sheet asphalt paving Rochambeau Ave. $12,790, and Delafield Ave. $25,318, and to Gaffney Constr. Co., Storey and Hermany Aves., Barrette St. $19,979; to Burnside Contg. Co., 270 Burnside Ave., grading West 251st St. $5,030, to I. F. Cavaluzzo, 1300 Cromwell Ave., Noble Ave. $13,274, Morris Park Ave. $22,629 and Orloff Ave. $26,371, and to Morris Park Contg. Co., 1991 Cruger Ave., Lacombe Ave. $16,018; to F. Pestone, 1657 Colden Ave., sewer in East 233rd St. $3,020, and to A. Musumecci, 277 East 146th St., Radcliffe Ave. $12,547, and Odell St. $1,635. Grand total $313,471. Noted Aug. 25.

N. Y., Rye—Office W. H. Selzer, village clk., Municipal Hall, paving various streets, to Barber & Coccola and Lux, 8 School St., $121,075.

N. Y., Rye—Westchester Co. Park Comn., 72 Pondfield Rd., Bronxville, paving Cross Country Parkway from Boston Post Rd., to Forest Ave., here, to J. Arborio, 59 Center St., New Haven, Conn., $74,535. Noted Aug. 11.

N. Y., Syracuse—Bd. Contr. & Supply, City Hall, to Rago Bros., Union Bldg., paving South Geddes St. $55,756, and Twin Hills Dr. $36,632; to Dale Eng. Co., 1066 North Geddes St., Shotwell Park extension $10,998, and Hastings Pl. $7,976; to G. D. Dickinson, Union Bldg., Wadsworth St. $34,121, May and Eastman Aves. $14,774, and Hickory St. $8,518. Grand total $168,775.

New Jersey—Bd. Freeholders Monmouth Co., paving 2.81 mi. Como-Allenwood Rd., to Freehold Constr. Co., Freehold, $116,024, 1.82 mi. Englishtown-Tennent Rd., to Wallace, Tozour & Wall, Millville, $79,069; and 3.17 mi. Tyndall Ave., Middletown, to Jannarone Constr. Co., 225 Passaic Ave., Belleville, $52,534. Grand total $247,627.

N. J., Linden — Union Co. (Elizabeth), concrete paving Stiles Ave., here, to Elizabeth Paving Co., 715 Elizabeth Ave., Elizabeth, $192,383. Noted Aug. 25 under "Elizabeth."

N. J., Linden — Sheet asphalt paving Fernwood and Dewitt Terraces, to J. R. Gilligan Casey Co., 972 Broad St., Newark, $58,802 and $19,148 respectively; Henry and Elm Sts., to Franklin Contg. Co., 20 Washington Pl., Newark, $58,985; also Hagel and Dewitt Sts., to J. F. Burke, 309 Park Ave., Plainfield, $35,802. Grand total $172,737.

N. J., Woodbridge — Bd. Freeholders Middlesex Co., concrete paving Woodbridge Ave., Highland Park, to A. Keyes, Woodbridge, $45,594.

Pennsylvania—State Hy. Comn., Harrisburg **(R. means Route and A. Application)**, grading, etc. 38,939 cu.yd. A.3802, Luzerne Co., to J. Banks Constr. Co., 191 Academy St. Wilkes-Barre, $77,927; concrete paving, etc. 41,070 sq.yd. R.70, Sect. 4-A, A.4358, Allegheny Co., to R. H. Cunningham, Turtle Creek $235,083, 17,428 sq.yd. R.146, Sect. 5, Montgomery Co., to McNichel Paving & Constr. Co., 1923 Cherry St., Phila. $71,588, 567 sq.yd. A.3130-B, and 9,456 sq.yd. A.384, Somerset Co., to M. F. McCabe & Co., Fairmount, W. Va. $7,546 and $41,430 respectively, 30,290 sq.yd. R.70, Sect. 4-C, Allegheny Co., to Fort Pitt Constr. Co., Martin Bldg., Pittsburgh $186,023, 23,010 sq.yd. A.4746, Beaver Co., to Rinehart Bros., East Liverpool, $85,219, and 3,180 sq.yd. R.53, Blair Co., to David Bailey, Morrisdale $16,543. Grand total $721,359. Noted July 28.

Pa., Phila.—Dept. Pub. Wks., Bureau Engineering, to McNichol Paving Co., 1923 Cherry St., grading Bigler, Galloway, Johnston, Lawrence, 3rd and 4th Sts. $26,494, also grading and improving City Line Ave. $6,500; to Curtis Bros., State Rd. and Unruh St., grading aproaches for Bustleton Avenue Bridge over railroad tracks, at Sumerton St. $7,363, to D. Duffin, 5101 Roosevelt Rd., and Frank Mark Contg. Co., N and Wingnocking Sts., F St. (undergrade portion) $2,057 each, to S. C. Ratzell, Limekiln Pike and Haines St., Gerhard St. $621; to J. F .Malloy, 15 Mermaid Lane, High and Mechanic Sts. $3,289, also grading and improving Northwestern Ave. $4,341; to Barber Asphalt Co., 239 North 30th St., asphalt repaving Springfield Ave. $7,568 and furnishing asphalt paving mixtures $20,200; to Eastern Asphalt Co., Penn Bldg., asphalt repaving Spring Garden (track area) $33,883; to C. G. Centrone, 522 North 65th St., redressed granite block repaving Buttonwood St. $5,790, and Poplar St. $18,410, to Union Paving Co., 123 South 21st St. Margaret St. (track area) $27,942, and 8th St. $38,585, also to Mazzola & Marano, Inc., 739 South 7th St., 8th St. $60,351, 8th St. (track area) $20,444, 11th St. and track area $35,884; to Municipal Constr. Co., Washington Sq. Bldg., grading and repaving Allen, Bath and Victoria Sts., $32,925; and to McHugh & Lucas, Peoples Bank Bldg., repairing bridges $2,995. Grand total $355,842. Noted Aug. 25.

Pa., Phila. — Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., repaving Broad St. between Louden St. and Wagner Ave.; and replacing 1,720 ft. existing granite blocks on concrete base (with bituliithic mastic filler), 69 ft., in Broad Street Subway, to Union Paving Co., 123 South 21st St., $51,411. Noted Sept. 1.

Pa., Pittsburgh — Grading, paving, etc. South Beatty St. between Baum Blvd. and Penn. Ave., to Booth & Flinn Ltd., Forbes St., $25,484. Engrs. est. $32,500. Noted Aug. 18.

Delaware—State Hy. Dept., Dover, grading and concrete paving 14,400 sq.yd. Columbia to Laurel-Sharptown Rd., to W. W. Truitt, Lincoln, $43,498, engrs. est. $43,498; also 5,915 sq.yd. DuPont Rd. from Lancaster to Kennett Pike, to D. E. O'Connell & Sons, Ridley Park, Pa., $29,669, engrs. est. $29,669. Noted July 21.

Md., Baltimore—Bd. Awards, concrete paving 5,320 sq.yd. streets listed Contr. 426, to Aiello Contg. Co., 4th and Gough Sts., $12,108; sheet asphalt paving 7,900 sq.yd. Contr. 427, to Amer. Paving & Contg. Co., Montebello Ave., $38,380. Noted Sept. 8.

North Carolina—State Hy. Comn., Raleigh, **(S. P. means State Project)**, grading and plain concrete paving, 10.75 mi. S. P. 1996, Wilson Co., to Zeigler Bros., Greensboro, $222,885; grading and gravel surfacing, etc., 5.06 mi. S. P. 7720, Watauga Co., to J. F. Mulligan Constr. Co., North Wilkesboro, $87,598; grading, clearing, top soiling, etc. 6.74 mi. S. P. 604, Alexander Co., to W. E. Graham, Mt. Ulla, $44,536; clearing, grading, etc. 6.91 mi. S. P. 188, Pitt Co., to Jamieson Bros., Inc., High Point, $26,981. Grand total $382,000. Noted Aug. 4.

South Carolina—State Hy. Dept., Columbia, asphalt paving 9.42 mi. Project 25, to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, N. C., $279,220. Noted Aug. 11.

Ala., Birmingham — City Comn. **(e.e. means engrs. est.)** grading and 2 in. asphalt on 6 in. concrete paving, etc. 8 blocks 81st St., and 2 blocks 60th St., both 40 ft. to Concrete Serv. Co., Amer. Trust Bldg., $43,066 and $10,711 respectively e.e. $58,700 and $12,150 respectively, 2 blocks Warrior Rd., 20 ft., to J. D. Mullarky, 2400 Ave. J, $2,270 e.e. $3,150, 6 blocks Georgia Rd. and 15th St. N., to H. N. Bowdry, Alabama Power Bldg., $40,422 e.e. $49,250, 3 blocks avenues T and Q, Ensley, to Morgan-Hill Paving Co., Woodward Bldg. $13,150 e.e. $16,300; also 2 in. asphalt on 5 in. concrete paving 3 blocks 15th Pl., to Dunn Constr. Co., Lincoln Life Bldg. $13,102 e.e. $16,200, 3 blocks Lanark Rd., Melrose and Sterline Places, to Southern Roads Co., Pioneer Bldg. $11,228 e.e. $13,200, and 3 blocks 6th and 8th Aves., 59th St. S., to Newell Constr. Co., Martin Bldg. $10,809 e.e. $13,000, all foregoing 30 ft. Grand total $144,758.

Georgia—State Hy. Dept., East Point, paving 9.33 mi. Newman-West Point Rd., Troup and Coweta Counties, to Wentley Constr. Co., La Grange $20,611, 5 mi. Bainbridge-Donaldsonville Rd., Decatur Co., to J. W. Gwin, Age-Herald Bldg., Birmingham, Ala. $113,973, and 10.65 mi. Columbus-Macon Rd., Muscogee Co., to Campbell Constr. Co., Columbus, Ga. $276,244; asphaltic concrete paving 9.08 mi. Hazelhurst-Waycross Rd., Bacon Co., to Coffee Constr. Co., Eastman, $75,635; concrete paving 4 mi. Columbus-Albany Rd., Terrell Co., to Hopper Winston Co., Montgomery, Ala. $85,823, 3.4 mi. Toccoa-Cornelia Rd., Stephens Co., to Pittman Constr. Co., Rhodes Bldg., Atlanta $87,027; also grading 18 mi. Lawrenceville-Winder Rd., Gwinnett and Barrow Counties, to M. R. Woodwall, Inc., Walton Bldg., Atlanta $81,581, and 9.08 mi. Hazelhurst-Waycross Rd., Bacon Co., to W. Z. Williams, Alma $22,180. Grand total $763,074.

Miss., Kosciusko—Bd. Supervs. Attalla Co., gravel on rock surfacing 9.744 mi. Federal Aid Project 37-A, to Clark & McCaa, Port Gibson, $48,906. Noted Aug. 4.

Miss., Oxford—Bd. Supervs. Lafayette Co. gravel surfacing, etc. 7.232 mi. Federal Aid Project 97-A, to Dawson Bros. & Beaver, Memphis, Tenn., $18,936. Noted Aug. 4.

Ohio—G. F. Schlesinger, dir. Hys. & Pub. Wks., Columbus, grading and concrete paving 0.952 mi. Sect. "Bridgeport" National Rd., Blemont Co., to Springer & Springer Constr. Co., Wheeling, W. Va., $43,952; also 2.476 mi. Sect. "D" Dayton-Lebanon Rd., Warren Co., to J. L. Radebaugh, Montgomery, $80,727.

O., Bluffton—Brick on concrete repaving approximately 1 mi. Main St., to L. L. Clymer, Bluffton, $80,000.

O., Kenmore—Grading, walks and paving, etc. 2,100 ft. North 17th St., to T. E. McShaffrey Co., 173 South Forge St., Akron, $32,396. Engrs. est. $30,000. Noted May 26.

O., Lisbon—Columbiana Co., surfacing and widening narrow brick section Valley-Damascus Rd., to J. D. Paxon, Salem, $29,988. Engrs. est. $30,000. Noted Aug. 18.

Indiana—J. D. Williams, dir. State Hy. Comn., Indianapolis, concrete paving 7.3 mi. Clermont-Pittsboro Rd., State Rd. 34, 18 ft., to Indiana Paving Co., Rochester, $129,963.

Ind., Indianapolis—Marion Co., concrete paving 10,870 sq. yd. Sherman Dr., to W. C. Halstead, 1041 W. 25th St. Indianapolis, $33,030. Engrs. est. $35,831.

Ind., Martinsville—Morgan Co., constructing Kleiman Rd., to Winslow & Hooten, Greenfield, $20,725; and Faut Rd., to H. Hill, Martinsville, $5,360.

Ind., Rushville—Rush Co., constructing Perkins and Harrison Sts., to Weintraut & Son, Waldron $16,530 and $31,268 respectively.

Michigan—C. L. Cowgill, resident engr., Plymouth, sheet asphalt paving 1.022 mi. State Trunk Line Rd. M082-9, Contr. 1, Wayne Co., 20 ft., to Village of Wayne, Wayne, for State Hy. Dept., Lansing. $47,949.

Michigan—G. H. Green, resident engr., Alpena, grading 7.034 mi. State Trunk Line Rd. MO68-8, Contr. 1, Oscoda Co., to Hill & Belknap, East Tawas, for State Hy. Dept., Lansing. $99,238.

Michigan—G. H. Green, resident engr., Alpena, grading 8.856 mi. Federal Road F016-13, Contr. 3, Cheboygan Co., to M. E. Hull, Dryden, for State Hy. Dept., Lansing. $99,316. Noted Aug. 4.

Michigan — G. H. Green, resident engr., Alpena, graveling 5.07 mi. State Trunk Line Rd. M065-9, Contr. 1, Ogemaw Co., 16 ft., to R. A. Jones, Prudenville, for State Hy. Dept., Lansing. $76,860. Noted Aug. 11.

Mich., Detroit—To M. R. Hanna, Ryan Rd., grading and 3½ in. sheet asphalt on 8 in. concrete paving Haverhill Ave., $35,952, Koppin Ave. $18,470, Lannoo Ave. $31,993, Lilac Ave. $15,414, Lesure Ave. $5,228, Tracey Ave. $5,324, Moneart Ave. $20,450, Hawthorne Ave. $28,907, Buckingham Ave. $35,779, Remington Ave. $28,995, and Collingham Dr. $30,672; to Detroit Asphalt Paving Co., 909 Transportation Bldg., Omira Ave. $11,576, Palmer Ave. $8,278, Linzee Ave. $5,211, Steel Ave. $21,094, Sorrento Ave. $21,153, Appoline Ave. from Davison to Schoolcraft Sts., $10,884, Appoline Ave. from Puritan to Grove Sts. $21,067, Forrer Ave. $17,275, Bedford Rd. $40,643, Hayes Ave. $90,605, Gallagher Ave. $5,837, Hayes Ave. from Elmdale to Houston Sts. $68,687, Lambert Ave. $5,502, Kirby Ave. $4,465, Quinn Ave. $16,074, Dubay Ave. $30,398, Hildale Ave. $115,518, State Fair Ave. $40,302, Nevada Ave.

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Streets and Roads (Continued)

$85,136, Wade Ave. $21,215, Kelly Rd. $64,867, Beaconsfield Ave. $17,810, Bedford Ave. $16,948, Webb Ave. $7,025, Chicago Ave. $4,090, Ardmore Ave. $12,816, Woodmount Ave. $15,412, St. Lawrence Ave. $19,543, Elmer Ave. $34,919, Winthrop Ave. $31,715 and West Chicago Ave. $81,101; to Cleveland Trinidad Paving Co., 403 Hammond Bldg., Holmur Ave. $36,781, 14th Ave. $10,523, Cloverlawn Ave. $8,745, Washburn Ave. $22,964, and Freeland Ave. $13,881; to Cooke Asphalt Paving Co., 1240 Penobscot Bldg., Dwyer Ave. $17,649. Grand total $1,294,833.

Mich., Detroit—Medina and stone curbing and 3½ in. sheet asphalt on 8 in. concrete paving Collingham Dr. and 4 avenues, to M. R. Hanna Co., Ryan and Nevada Rds., $144,803, Bedford Rd. and 15 avenues, to Detroit Asphalt Paving Co., 909 Transportation Bldg., $433,800; Dwyer Ave., to Cooke Asphalt Paving Co., Penobscot Bldg., $17,649; Holmur and Manor Aves., to Cleveland Trinidad Paving Co., 402 Hammond Bldg., $47,170; Aurora and Hubbel Aves., to Lennane & McIlvenna, 7777 West Chicago Blvd., $13,153; and Fordham Ave., to Dept. Pub. Wks., City Hall, $13,854. Grand total $670,429.

Mich., Detroit—Wayne Co., concrete paving 1.037 mi. S.T.L. Road. MO 82-19 and 20, Contrs. 1 and 2, 0.656 ft. State T. L. MO 82-18, Contr. 1, both 20 ft., to Wayne Co. Rd. Comn., Detroit, $41,480 and $26,240 respectively.

Mich., Wyandotte — To Bishop & Weir, 6451 East Six Mile Rd., Detroit, grading, curbing and 8 in. concrete paving Assessment Dist. 81, 4th St., $83,262; to E. A. Campbell, Kalamazoo, Dist. 85, $13,504, Dist. 86, $8,502, Dist. 92 $54,195, Dist. 93 $16,721, and Dist. 95, Cedar St. $8,731; to Cement Paving Co., 606 Woodward Ave., Detroit, Dist. 94, $6,791. Grand total $191,706.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, to H. Zolper & Sons, Mendota, concrete surfacing 0.55 mi. Route 2, Sect. 73-V-1, Lee Co. $11,375, to Hamilton-Hoffman Constr. Co., Carbondale, 2.18 mi. Route 13, Sect. 17, Perry Co. $36,027, and Route 123, Sect. 101, Menard Co. $190,570, to Duncan Constr. Co., Ottawa, 0.78 mi. Soldiers and Widows Home Rd., Will Co. $27,735, and gravel surfacing 0.02 mi. Project 7, Sect. IA, La Salle Co. $7,994; to Harrison Eng. Corp., Mutual Bldg., Kansas City, Mo., concrete surfacing 15.58 mi. Route 49, Sects. 135 and 136 Iroquois Co. $277,491, to W. O'Neil Sons Co., Faribault, Minn., 9.85 mi. Route 72, Sect. 114, Carroll and Ogle Counties $211,295, to E. M. Rocho, Freeport, 0.14 mi. Route 72, Sect. 114-W, Carroll Co. $2,347, to L. B. Dyer Constr. Co., Hoopeston, 1.61 mi. Route 91, Sect. 111, Peoria Co. $51,672, to H. C. Holmes, Macomb, 0.83 mi. Route 95, Sect. 119-G, McDonough Co. $7,019, to Stocker Gravel & Constr. Co., Highland, 4.89 mi. Route 110, Sects. 115 and 119, Macoupin Co. $116,000, to Mitchell Contg. Co., Marion, 2.34 mi. Route 148, Sect. 127, Franklin Co. $78,638, to W. A. Black Co., 565 West Washington St., Chicago, 0.53 mi. Route 6, Sect. JR-1, Du Page Co. $8,005, to J. B. Lyon, Robinson, 0.36 mi. Route 6, Sect IV-1, Lawrence Co. $17,729, to Powers-Thompson Constr Co., Joliet, Route 61, Sect 112, McHenry Co. $260,638, to W. C. Johnson, Belleville, Route 13, Sect. 25-S, St. Clair Co. $19,904, to E. J. Eiff Co., Quincy, Route 85, Sect. 101, Mercer and Warren Counties $102,410, to Madison Constr. Co., Edwardsville, Route 140, Sect. 109, White Co. $167,621, to C. J. Meritz, Inc., Effingham, Route 3, Sect. 38, Jersey Co. $72,345, to J. W. Etchison Co., Casey, Route 23, Sect. 8, Sangamon Co. $64,814, and to Fogleman & Davidson, De Soto, Mo., Route 3, Sects. 62 and 62-X Greene Co. $33,664; to J. S. Groves Sons Co., grading 5 mi. Route 59, Sect. 106-A, Lake Co. $63,326, 1.46 mi. Route 78, Sect. 134-A, Fulton Co. $32,050 and 1.22 mi. Route 89, Sect. 115-A, Bureau Co. $32,779, to J. J. Dunnegan Constr. Co., Shenandoah, Ia., 4.56 mi. Route 51, Sect. 102-A, Cook Co. $92,227, to Stevens Bros., 612 Endicott Bldg., St. Paul, Minn., 3.27 mi, Route 72, Sect. 113-A, Carroll Co. $31,524, to King & Shehan, Dudley, 7.44 mi. Route 142, Sect. 101-A, Wayne Co. $50,700, to M. E. McGuire, Indianapolis, Ind., 1.57 mi. Route 160, Sect. 134-A, Madison Co. $34,547, and to French Constr. Co., Fairfield, 6.45 mi. Route 182, Sect. 101-A, Marion Co. $35,837. Grand total $2,138,282.

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, grading, 7 in. concrete paving, etc. portions 2 alleys, to Paramount Constr. Co., 107 North Clark St.; grading, curbing, guttering and asphalt on old macadam resurfacing portion Albion Ave., and grading, curbing, guttering and asphalt on 6 in. concrete paving portion Barton Ave., to Barber Constr. Co., 5001 Elston St., portion Bernard St., North Central, Ardmore, Drake, North St. Louis, Christiana, and North Spaulding Aves., also grading, curbing, guttering and asphalt on 8 in. concrete paving portion West Madison St., to White Paving Co., 1735 Fullerton St.; grading, curbing, guttering and 8 in. concrete paving, etc. portions Hale Ave., to Hedges Constr. Co., 64 West Randolph St., portions Hutchinson St., North Hermitage and North Long Aves., to J. A. Ross, 4561 Armitage St., portions West 72nd, 73rd and 74th Sts., South Claremont, South Okaley and South Irving Aves., to J. A. Sackley Co., 4608 Belmont Ave., portions West 48th, 49th and 50th Sts., Komensky, South Kedvale, and South Keeler Aves., to J. A. McGarry & Co., 4556 Patterson St., portion West 84th St., to J. Dillon & Co., 2953 South Halsted St.; grading, curbing, guttering and asphalt on 6 in. concrete paving portions East 75th Pl., East 84th, 110th and West 104th Sts., Ellis, Normal, Emerald and South Union Sts., also grading, curbing, guttering and 2 in. asphaltic concrete on 6 in. concrete paving portions Wallace and South Bishop Sts., to Amer. Asphalt Paving Co., 133 West Washington St., portions West 57th Pl. and South Irving Ave., grading, curbing, guttering and 2 in. asphaltic concrete on old macadam surfacing portion West 66th St., also grading, curbing, guttering and 2 in. asphaltic concrete paving portions West 116th and West 117th Places, West 116th and West 117th Sts., Love and South Union Aves., to R. F. Conway Co., 844 Rush St.; 6 ft. concrete sidewalks on portions Wallace and Aberdeen Sts., South Bishop and Princeton Aves., to H. Johnson & Co., 430 West 111th St., on portions West 94th and 109th, East 79th, 80th, 81st and 82nd Sts., Prairie, Indiana and South Michigan Aves., to Superior Concrete Constr. Co., 1109 East 52nd St., portions West 63rd, 64th, 65th, Gunnison and Giddings Sts., Leonard, North Central, Major, Biltmore, Markham, Komensky, South Karlov, Kedvale, Keeler, Kildare, Tripp, North Melvina, Narragansett, Sunnyside, Montrose and Melvin Aves. to Banner Constr. Co., on portions West 65th, 66th and 67th Sts., Komensky, South Wheeler, Karlov, Kedvale, and Indiana Aves., to Universal Constr. Co., portions Gunnison and Giddings Sts., Leland, North Austin and North Melvina Aves., to M. Schuh, 4625 Dickens Ave., portions Clarkson Court, Eastman, Larrabee, South Robey, North State, West 57th, 58th, South Mozart and South Richmond Sts., Euclid, North Harlem, North Lawler, Lathem, Forest Glenn, South Francis, South Sacramento and Mendell Aves., to G. Kehl & Sons, 1225 North Maplewood Ave., portions North Linder, Morse, Berteau and Milwaukee Aves., to C. Schroeder, Jr., portions East 77th and 78th Sts., Calumet, Prairie and Indiana Aves., to Aldrich Constr. Co., 140 South Dearborn St.

Wis., Milwaukee—Bd. Pub. Wks., R. E. Stoelting, comr., paving Center St., to W. F. Hunt, 445 Milwaukee St. $26,536, Grant Blvd., to Badger Constr. Co., 97 East Wisconsin Ave. $27,433, Orchard St., to Rybock & Sadowski, 1092 2nd Ave. $6,855, 34th Ave., to Czerwinski Constr. Co., 816 Clinton St. $828, 37th St., to J. C. Bluhm & Sons Co., 1299 Achilles Pl. $13,192, 29th St., to Eastern Constr. Co., 878 Franklin Pl. $7,556, 16th and 17th Aves., to Blech Constr. Co., 2123 Vliet St. $2,162; asphalt paving, etc. Kinnickinnic and Lisbon Aves., to Wisconsin Asphalt Paving Co., 123 Wisconsin Ave. $31,711 and $54,532 respectively; grading and paving 2 alleys, to Schwerm Bros., 50 Meinecke Ave., $5,261, and 2 alleys, to Schramkoski & Sons Co., 918 Dousmann St. $4,556. Grand total $180,622.

Iowa—State Hy. Comn., **(P.P. means Primary Project, and F.A.P. Federal Aid Project)**, grading, paving, etc. 12,382 sq.yd. U. S. Highway 30, P. 504, Benton Co. to Bryant Paving Co., Waterloo $32,096, 141,200 sq.yd. U. S. Highway 65, P.P. 538 Franklin Co., and 107,680 sq.yd. same road, F.A.P. 212, to Harrison Eng. Co., 506 Mutual Bldg., Kansas City, Mo. $365,193 and $267,644 respectively, 75,135 sq.yd. U. S. Highway 30, F.A.P. 14, Harrison Co., to National Constr. Co., 310 Arthur Bldg., Omaha, Neb. $174,211, grading, etc. 18,968 cu.yd. Murray Stub Rd., P.P. 506, Clarke Co., to C. P. Leach, Moravia $7,128, 118,000 cu.yd. U. S. Highway 30, F.A.P. 14, Harrison Co. and 20,344 cu.yd. P.P. 38, Monona Co. to G. W. Condon, 223 Grain Exch. Bldg., Omaha, Neb. $25,511 and $3,865 respectively, and 384,510 cu.yd. F.A.P. 2, Woodbury Co., to E. V. Martin, Ames $86,669; graveling 2,800 cu.yd. U. S. Highway 266, Grundy Co., to Snater Constr. Co., Ackley, $7,563; drain tile sewer, etc., on F.A.P. 261, Poweshiek Co., to W. J. Link, West Point, $5,902, Grand total $975,774.

Ia., Fairfield—R. V. Goodman, city clk., grading, paving, etc. 9,500 sq.yd. East Burlington St., to C. H. Kearns, Fairfield, at $1.88 per sq.yd. Noted June 30.

Ia., Newton—To J. S. McLaughlin & Sons Co., 519 Insurance Bldg., Des Moines, grading, curbing and paving 12,260 sq.yd. various streets, 7 in. concrete at $2,35 per sq.yd. and sheet asphalt at $2.64 per sq.yd. Noted July 21.

Ia., Spirit Lake—Dickinson Co., to F. Weaver, Spirit Lake, improving 26 mi. road, 12,000 cu.yd. gravel 1 mi. haul at $0.40 and $0.41 per cu.yd., 70,500 units ½ mi. haul, $0.0725, and $0.075, and 10,500 cu.yd. stripping $0.20.

Minnesota—State Hy. Comn., St. Paul, concrete paving, etc. approximately 181,091 sq. yd. State Project 63-22, Divs. B and D, Federal Aid Project 383, north and south of New Brighton, to Hanlon & Okes, 1501 Merchants Natl. Bank Bldg., St. Paul, $156,593. Noted Aug. 4.

Minn., Minneapolis—A. P. Erickson, aud. Hennepin Co., asphaltic concrete paving, etc. approximately 21,252 sq.yd. Project 784; also concrete and gravel paving approximately 100,339 sq. yd. Divs. A and C same road, to Hanlon & Okes, 1501 Merchants Natl. Bank Bldg., St. Paul, $52,010 and $184,984 respectively. Noted Aug. 11.

Kan., Independence — Montgomery Co., concrete paving, etc., 3.733 mi. Federal Aid Project 70-A, and 1.59 mi. Federal Aid Project 84-A, both 18 ft., to A. G. Sherwood, Independence, $94,356 and $35,844 respectively. Engrs. est. $95,408 and $41,157 respectively. Noted Aug. 4.

Nebraska—State Hy. Comn., Lincoln **(F.A.P. means Federal Aid Project and S.P. State Project)**, to Central Bridge & Constr. Co., Wahoo, grading 6.5 mi. F.A.P. 58-C $7,895, 11.8 mi. F.A.P. 261-B $22,399, both Colfax Co., 16.9 mi. F.A.P. 277-D, Sheridan Co. $93,114, and graveling 1.8 mi. F.A.P. 304-K, Dodge Co. $2,787; to G. Ross, Alliance, grading 4.2 mi. F.A.P. 277-E, Grant Co. $17,895, to Theisen Bros., Osmond, 10.2 mi. F.A.P. 83-C, Antelope Co. $22,373, and 9.2 mi. F.A.P. 269-B, Cedar Co. $29,430, to E. L. Marrs, Cody, 3.7 mi. F.A.P. 249-C, Garden Co. $4,472, and 5 mi. F.A.P. 249-D, Keith Co. $11,938, and to R. R. Knight, Grand Island, 10.7 mi. F.A.P. 161-B, Saline Co. $23,595; to Steele & Olinger, Sidney, grading Lodge Pole-Potter Rd., F.A.P. 149-B, Cheyenne Co. $960, and 15.4 mi. F.A.P. 273-A, Furnas Co. $32,788; to Koehler Constr. Co., Sterling, graveling 8.5 mi. F.A.P. 5, Madison Co. $15,264, and 6.1 mi. F.A.P. 31, Dixon Co. $7,574, to Yant Constr. Co., 905 Omaha Natl. Bank, Omaha, 9.9 mi. F.A.P. 26, Chase Co., $29,744, 2 mi. F.A.P. 29, Butler Co. $2,675, 0.8 mi. F.A.P. 92-B $1,918, 9.5 mi. F.A.P. 92-C, $14,362, 3 mi. F.A.P. 212 $7,752, all foregoing Sherman Co., 10.1 mi. F.A.P. 204-A, Butler Co. $27,490, 10.4 mi. F.A.P. 205-K, Webster Co. $9,721, 11.6 mi. F.A.P. 602-A, Polk Co. $10,706, and grading same road $13,414; to A. Carter, McCook, graveling 2.2 mi. F.A.P. 46 $6,018, and 1.3 mi. S.A.P. 293-A $2,541, both Red Willow Co., to Stevens Bros., St. Paul, Minn., 11.2 mi. F.A.P. 70-B, Wayne Co. $12,171, to Roberts Constr. Co., 404-5 1st Natl. Bank Bldg., Lincoln, 1.6 mi. F.A.P. 262-B Thurston Co. $5,250, to Reel & Kennedy, Dalton, 14.6 mi. F.A.P. 601-A, Buffalo Co. $21,658, and to Webster Bridge & Constr. Co. Omaha, 17.6 mi. F.A.P. 158-A, Holt Co., $40,844; to Monarch Eng. Co., Falls City, grading and bridges on F.A.P. 139-D, Holt Co., $17,131; to Nebraska Constr. Co., 525 South 13th St., Lincoln, bridge on 10 mi. F.A.P. 83-C, Antelope Co., $4,642; to Walters Constr. Co., Omaha, bridges on 15.4 mi. F.A.P. 273-A, Furnas Co., $37,643 to Artificial Stone Co., Bruning, culverts on 14 mi. F.A.P. 97-C, Pawnee Co. $29,891, and 8.9 mi. F.A.P. 246-C, Richardson Co. $27,511, to Humphreys Morris Co., Omaha, 11.8 mi. F.A.P. 261-B, Colfax Co. $11,784, and to Norfolk Bridge & Constr. Co., Norfolk, 9.2 mi. F.A.P. 269-Cedar Co. $11,223. Grand total $669,228. Noted Aug. 18.

Neb., Emerson—Grading and 6 in. Johnson concrete paving, etc. approximately 10,800 sq. yd. streets in Paving Dists. 3 and 4, to Booth & Olson, Inc., Sioux City, Ia.

Neb., Hastings—For 6 in. rein.-con. paving, etc. 1,800 sq. yd. Paving Dist. 135 and 6 in. vibrolithic concrete paving, etc. 8,690 sq. yd. Dist. 136, to Mid-State Constr. Co., Hastings.

Neb., Fremont—J. R. Henry, comr. Br. Pub. Wks., concrete paving 9,830 sq.yd. streets in Dist. 78, and 2,750 sq.yd. Dist. 79, to W. Weidner, 1125 East 12th St.

Neb., Litchfield—M. F. Snovely, city clk., grading and vibrolithic, concrete paving, etc. 6,000 sq.yd. Main St. in Dist. 1, to Abel Constr. Co., 318 Terminal Bldg., Lincoln, $17,028. Noted Aug. 11.

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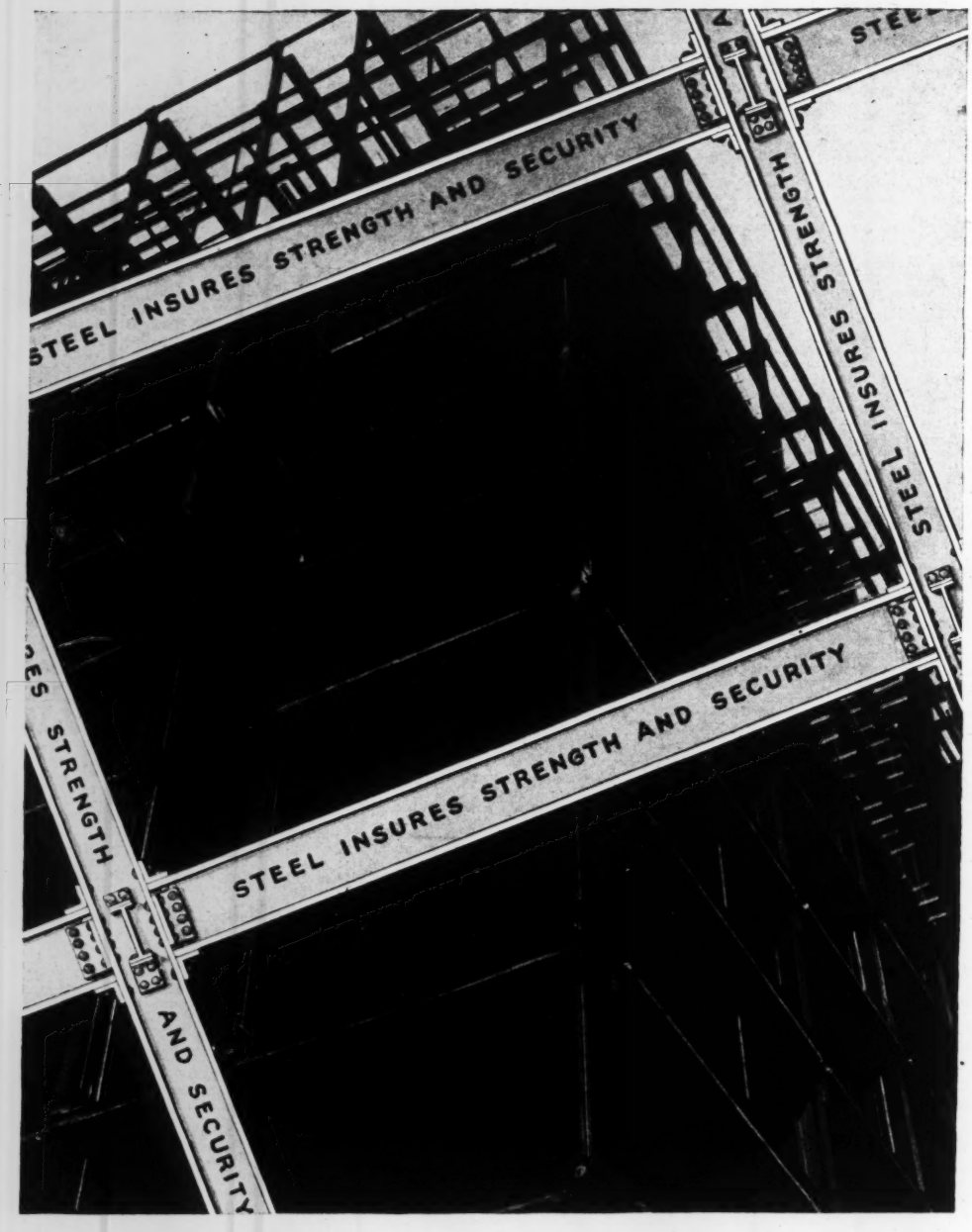

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Steel Insures Strength and Security

Streets and Roads (Continued)

Wyoming—State Hy. Comn., Cheyenne, grading, graveling, etc. 11,000 cu.yd. Carlile-Sundance Rd., Federal Aid Project 183-A, Crook Co., to Sharrock & Purcel, Casper, $95,496; and grading, etc. Lusk-Douglas Rd., Federal Aid Project 170-B, Niobrara Co., to J. Davis, Bordeaux, $39,115.

Mont., Great Falls—Warrenite bitulithic paving, etc. approximately 60,000 sq.yd. Central Ave., 1st and 3rd Aves. N., to S. Birch & Sons Co., 211 Front St., Fargo, N. D. Noted June 30.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, to Eyermann Constr. Co., 1218 South Grand Blvd., vibrolithic concrete paving 4,435 sq.yd. Ecoff Ave. $21,377, and recut granite block paving 2,610 sq.yd. 14th St. $16,640; to Perkinson Bros., Constr. Co., 3237 Carter Ave., rein.-con. paving 1,825 sq.yd. Harney St. $8,585, and brick paving 3,590 sq.yd. Elias St. $24,836; to Moreno Constr. Co., Syndicate Trust Bldg., concrete paving 300 sq.yd. Delor St. $9,394, asphaltic concrete paving 1,075 sq.yd. Hereford St. $7,000, and 1,150 sq.yd. Oxford Lane $7,393; to Granite Bituminous Paving Co., Ry. Exch. Bldg., warrenite bithulithic paving 4,315 sq.yd. 1,630 sq.yd. Reber Pl. $13,642, 3,240 sq.yd. Bradley St. $34,763, 4,315 sq.yd. Kingshighway between Forest Park and Manchester Ave. $33,933, and 5,600 sq.yd. Kingshighway between Scott Ave. and Forest Park $44,251. Grand total $217,259. Noted Aug. 4.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, rein.-con. paving, etc. Kingshighway Blvd. through Penrose Park south of viaduct and macadam paving north of viaduct, to J. F. McMahon Contg. Co., Buder Bldg., $16,452; rein.-con. paving, etc. approximately 3,800 sq.yd. Kingshighway Northwest, to Perkinson Bros. Constr. Co., 3237 Carter Ave., $9,374; and paving approximately 15,000 sq.yd. 12 alleys, to Central Paving & Constr. Co., 6161 Maple Ave., $32,145. Grand total $57,971. Noted Aug. 11.

Arkansas—State Hy. Comr., Little Rock, grading, etc. 11 mi. Fort Smith-Charleston Rd., to Interstate Constr. Co., Paris, Tex., $40,911, 15¼ mi. Fort Smith-Greenwood Rd., to W. B. McCoy, Fort Smith $78,984, 14 mi. Warren Hermitage Rd., Sebastian Co., to R. J. Lynch, Little Rock $32,886, 9.5 mi. Charleston and Paris Rd., Logan Co., to Ellis & Ellis, Muskogee, Okla. $54,772, 8.5 mi. Yellville-Marshall Rd., Marion Co., and Piggott Rd., Clay Co., to S. C. Taylor, Birmingham, Ala., $67,887 and $35,814 respectivley, 7.6 mi. Rosston-Waldo Rd., Nevada Co., and 11 mi. Lewisville-Bradley Rd., Lafayette Co., to J. G. Newkirk Drainage Co., Little Rock, $35,338 and $42,928 respectively; grading and graveling 15 mi. Wynne-Harrisburg Rd., Cross Co., to W. J. Runyon Co., Sheffield, Ala., $34,479; concrete paving, 18 mi. Magnolia-Eldorado Rd., Union Co., to M. D. L. Cook & Co., Little Rock, $457,032, and repairing flood damage on Hot Springs Rd., to Harvey Brown Constr. Co., Little Rock, $33,839. Grand total $914,870. Noted Aug. 25.

Tex., Anderson—State Hy. Dept., Austin, bituminous on gravel and macadam paving, etc. 5.088 mi. Highway 90, Grimes Co., to Hayden & Austin, P. O. Box 1223, Houston, $93,369. Engrs. est. $100.000.

Tex., Houston—Asphalt paving approximately 7.500 sq.yd. Chartres St., to Smith Bros., 2402 Dallas Ave. W., $25,889; rock asphalt paving aproximately 15,900 sq.yd. St. Bernard St., to Uvalde Rock Asphalt Co., Post Dispatch Bldg., $52,458; graveling Tierwebster, Webster, Pease, Canfield, Burnett, Sumpter, Gray, Pierce, Roberts, Ennis, McIlhenny and Chase Sts., to J. M. Griswolds Sons, 3040 Polk St., $20,798; 2 in. asphalt on 6 in. concrete paving Tuam St., to A. M. Arnold & Co., Summer and Elder Sts., $30,865. Grand total $130,010.

Tex., Palestine—Anderson Co., concrete paving, etc. 112,650 sq.yd. State Hy. 43, to J. F. Foty & S. W. Gaylord, Wichita Falls, $263,587. Engrs. est. $285,000.

Tex., Waxahachie—Ellis Co., concrete paving 4.185 mi. State Highway 6, from Waxahachie north to point near Sterrett, 18 ft. to Fuller Constr. Co., Republic Bank Bldg., Dallas, $94,008. Engrs. est. $100,000.

Oklahoma—State Hy. Dept., Oklahoma City (**F.A.P. means Federal Aid Project and e.e. engrs. est.**), to Standard Paving Co., 1742 East 6th St., Tulsa, grading, concrete slab surfacing etc. 67,621 sq.yd. Orlando Rd. F.A.P. 139-E, $156,245 e.e. $165,000, and 28,461 sq.yd. Guthrie Rd., F.A.P. 139-G, $71,141 e.e. $75,000, both Logan Co., also 68,054 sq.yd. Perry Rd., F.A.P. 139-H, Noble Co. $160,881 e.e. $175,000. Grand total $388,267. Noted Aug. 25.

Okla., Enid—R. T. Willams, city clk., grading and concrete paving 33,810 sq. yd. East Cherokee Ave., to E. W. Baker & Co., Perrine Bldg., Oklahoma City, $100,559. Engrs. est. $100,000. Noted Aug. 18.

Okla., Ponca City—Grading, curbing, guttering and vertical fibre brick paving 5,800 sq.yd. Dist. 72, to Rightmire & Baldwin, 109 East Grand St., $23,306. Engrs. est. $25,000. Noted Dec. 16.

Idaho—J. D. Wood, comr. Pub. Wks., at Office City Council, Salmon, crushed graveling, and warrenite paving, etc. 13,330 sq.yd. Federal Aid Project 90-B, Lemhi Co., to J. C. Maguire, Butte, Mont. $87,713.

Nevada—Directors Dept. Highways, Carson Co., graveling, etc. 23,000 cu.yd. Federal Aid Project 24-A, Sect. 2-C1, Churchill Co., contr. 167, to Dodge Bros., Inc., Fallon, $80,563. Noted Aug. 25.

Washington—State Hy. Comn., Olympia (**S.R. means State Road and F.A.P. Federal Aid Project**), grading, etc. 82,000 cu. yd. S.R. 9, Sect. F.A.P. 113, Grays Harbor and Jefferson Counties, to Rowland Bros., Aberdeen $155,639, 56,000 cu.yd. S.R. 2, F.A.P. 156-A, Lincoln Co., to Crick & Kuney, 303 Baker Bldg., Walla Walla, $33,764, 142,000 cu.yd. S.R. 8, F.A.P. 144-B, Skamania Co., to Hazard & Sturgill, Stevenson $124,705, and 270,000 cu.yd. S.R. 8, F.A.P. 144-C, Skamania Co., to Coyle Constr. Co., Inc., 901 Westlake Ave. N., Seattle $137,306; also crushed graveling, etc. 5,150 cu.yd. S.R. 2, Douglas Co., to Goodfellow Bros., Wenatchee $10,235. Grand total $461,649. Noted Aug. 11.

California—State Hy. Dept., Sacramento, grading and bituminous macadam paving 7.6 mi. roadway between Dublin and Hayward, Alameda Co., to Ariss-Knapp Co., 961-41st St., Oakland, $336,052. Noted July 21.

California—Bd. Pub. Wks., Sacramento, grading and asphalt paving, etc. 3.1 mi. roadway between Sylvan School and Roseville, Sacramento and Placer Counties, to J. C. Compton, McMinnville, Ore., $86,794.

Calif., Banning—Curbing, guttering, walks and concrete paving West Hays St., etc., to C. Stahlman, 1455 Cypress Ave., Riverside, $42,225. Noted Sept. 1.

Calif., Corcoran—Curbing, guttering and asphaltic concrete paving, etc. Chittenden Ave., etc., to California Road & Street Impvt. Co., Bank of Italy Bldg., Fresno, $66,956.

Calif., Fullerton—F. C. Hezmalhalch, city clk., 5 in. asphaltic concrete paving, etc. West Malvern St., etc., to S. Finley, 204 East 4th St., Santa Ana, $39,600. Noted Aug. 25.

Calif., La Mesa—Grading and asphaltic concrete paving Fairview Ave., etc., to Hazard Constr. Co., 2528 Kettner Blvd., San Diego, $60,667.

Calif., La Mesa—Grading, concrete paving, etc. La Mesa and Dale Sts., etc., to D. H. Ryan, 1615 Fern St., San Diego, $33,966. Noted June 9.

Calif., Larkspur—Concrete and asphaltic concrete paving, etc. Hazel Ave., etc., to McDonald & Maggiora, 114 Sansome St., San Francisco, approximately $25,000.

Calif., Los Angeles—Grading and concrete paving, etc. Barret Rd. et al, to G. R. Curtis Paving Co., 2440 East 26th St., $103,694. Engrs. est. $100,950.

Calif., Los Angeles—Grading and 6 in. concrete paving, etc. 165,767 sq.ft. portion Vanowen St., to Gibbons & Reed, 221 East San Fernando Blvd., $59,795.

Calif., Los Angeles—Los Angeles Co., grading and concrete paving 115,817 sq. ft. Industrial Ave., Impvt. 667, to Griffith Co., Railway Bldg., $42,768; also curbing, guttering, walks, and disintegrated rock with oil and rock wearing surface, etc. 341,762 sq. ft. Kendrick Ave., etc., Impvt. 361, to to Baker & Vigus, I. W. Hellman Bldg., $67,675.

Calif., Pasadena—Grading, walks and concrete paving, etc. Lincoln Ave., to J. E. Haddock, 357 North Chester Ave., $70,038.

Calif., San Diego—San Diego Co., 5 in. concrete paving, etc. 465,022 sq.ft. LaJolla-Miramar Rd., to E. P. Ford, 4350 University Ave., $79,468; also grading, curbing, guttering and 6 in. concrete paving 311,860 sq. ft. and 6 in. rein.-con. paving, etc. 58,700 sq.ft. highway from La Mesa Heights to Bostonia, to D. H. Ryan, 4749 University Ave., $184,620.

Calif., Santa Cruz—S. A. Evans, city clk., grading and 5 in. concrete paving, etc. Seabright and Soquel Aves., etc., to Thompson Bros., $49,479. Noted Aug. 25.

Calif., Stockton—San Joaquin Co., to Heafey-Moore Co., 344 High St., Oakland, improving Lower Stockton Rd., 11,000 tons asphaltic concrete at $5.50 per ton, 600 tons seal coat $5.25, etc., total $63,650.

Calif., Stockton—E. D. Graham, clk., San Joaquin Co., to G. French, Jr., 615 Willow St., improving Fine Rd. (289), etc., 11,000 cu. yd. grading at $0.48 per cu. yd., 6,800 tons gravel $2.09, etc.

Ont., Bridgeburg—Curbing, guttering, sewers, sheet asphalt paving, 12,000 sq. yd. Jarvis St., to Godson Contg. Co., 203 Richmond St. W., Toronto, $70,300. Engrs. est. $75,000.

Ont., Burlington—Concrete paving various streets, to Grant Contg. Co., 47 Wellington St. E., Toronto, $40,000.

Ont., Leaside—Curbing and guttering, bitulithic concrete on concrete paving, 20,000 sq.yd., various streets, to Warren Bituminous Paving Co. of Ontario 54 University Ave., Toronto, $88,000; also concrete sidewalks, to R. H. McGregor, Sammon Ave., Toronto, $3,311.

Ont., Toronto—North York Twp. sheet asphalt on concrete paving, 1 mi. various streets, to Godson Contg. Co., Ltd., 203 Richmond St. W.; and to Ontario Amiesete Co., foot of Spadina Ave. Engr. est. $30,000.

B. C., South Vancouver—Resurfacing and asphaltic macadam widening, 4 mi. Marine Dr., 18 ft., to General Constr. Co. Ltd., 736 Granville St., Vancouver, $27,000. Engrs. est. $30,000.

Buildings—Commercial

Proposed Work

Mass., Boston — OFFICE — Woodstock Trust, c/o H. F. Kellogg, archt., 378 Stuart St., having preliminary plans prepared 14 story and basement, rein.-con., brick and steel, plain foundation, 89 Broad St. To exceed $150,000.

Mass., Easthampton — THEATRE — S. Rapalus, c/o Majestic Theatre, Cottage St., having plans prepared by G. P. B. Alderman & Co., 316 High St., Boston, 1 story and basement, brick and steel, plain foundation, Union St. $150,000. Noted Jan. 27.

Mass., Springfield — GARAGE — A. C. Behr, 44 Vernon St., having preliminary plans prepared by H. C. Hearne, 1387 Main St., rein.-con., Columbus Ave. $150,000, or more.

Conn., Hartford — THEATRE, STORE and OFFICE— D. Weinstock, 42 State St., soon takes bids 4 story and basement, 40 x 225 ft., brick and steel, plain foundation, State St. E. T. Wiley, 75 Pratt St., archt.

Conn., New Britain—BUSINESS—B. C. Porter Sons, 224 Main St., having plans prepared by D. K. Perry, 17 Court St., 5 story, rein.-con., brick and steel mercantile building, Main St. $150,000.

N. Y Brooklyn—HOTEL and THEATRE —Shelburne Constr. Co., S. Casceo, pres. Hotel Sherburne, Brighton Beach, having plans prepared by P. B. LaVelle, 505 5th Ave., New York City, hotel and theatre, Ocean Parkway and Breeze Ave. $4,000,000.

N. Y., Long Island City — OFFICE — Realty Constr. Corp., 307 7th Ave., New York City, having plans prepared by Shampan & Shampan, 188 Montague St., Brooklyn, 12 story, office building, Hunters and 41st Aves., here. $1,000,000.

N. Y., New York—APARTMENT—Four Hundred Seventy West End Avenue Corp. having plans prepared by G. F. Pelham, 570 7th Ave., 15 story apartment, on 120 x 149 ft. site, West End Ave. and 83rd St. $1,500,000.

N. Y., New York—APARTMENT—Nine Hundred Twelve 5th Avenue Corp., S. Solomon, pres., c/o Gronenberg & Leuchtag, archts., 1385 Bway., having preliminary plans prepared 15 story, brick and terra cotta, on 65 x 102 ft. site, 179-183 East 79th St. $475,000.

N. Y., New York—CLUBHOUSE—J. M. Howells, archt., 154 East 46th St., soon lets contract 25 story, 80 x 108 ft., brick and steel, Mitchell Pl. and 1st Ave., for Pan Hellenic House Assn., Inc., H. B. Hepburn, pres., 17 East 62nd St. To exceed $1,000,000. Noted Mar. 4.

N. Y., New York — HOTEL — Three Hundred Fifteen West End Ave. Corp. having plans prepared by R. T. Lyons, 49 East 49th St., 16 story, brick, limestone and terra cotta, 315 West End Ave. $1,000,000.

N. Y., New York—WOMEN'S PRISON—Dept. Corrections, Municipal Bldg., having plans prepared by B. W. Levitan, 1 Pershing Sq., 12 to 14 story, brick, 6th Ave., and Greenwich St. $2,000,000.

N. J., Annandale—REFORMATORY—State Building Comn., Court House, Trenton, having sketches made by Guilbert & Betelle, 20 Branford Pl., Newark, 2 and 3 story reformatory, here. $200,000. Noted Mar. 24.

N. J., Asbury Park — APARTMENT HOTEL — Casa Blanca Del Mar Co., 434 Cookman Pl., having plans prepared by W. F. B. Koelle, Otis Bldg., Phila., Pa., 12 story and basement, 200 x 300 ft. apartment hotel, here.

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Buildings—Commercial (Continued)

N. J., Bayonne—APARTMENT—B. Katz, 31 Wegman, Parkway, Jersey City, having plans prepared 5 story and basement, brick and steel, plain foundation, 49-51 Glwnwood Ave. $150,000. Private Plans.

N. J., Bradley Beach—HOTEL—Hotel La Rein Corp., M. Sparks, pres. Ocean Ave., having sketches made by L. Brooks, 65 Madison Ave., New York City, 6 story and basement, brick and steel, plain foundation, LaReine Beach and Ocean Ave. $500,000. Noted Sept. 1.

N. J., East Orange—APARTMENT—H. Racklin, c/o F. J. Cook, archt., 9 Clinton St., Newark, having plans prepared 4 story and basement, 70 x 170 ft., brick and steel, plain foundation, Washington and Hilyer Sts., here. $150,000.

N. J., Jersey City—APARTMENT—B. Katz (owner and contractor), 31 Wegman Parkway, having plans prepared 5 story and basement, 75 x 150 ft., brick and steel, plain foundation, 329-335 Claremont Ave. $250,000. Private plans.

N. J., Linden — WAREHOUSE and OFFICE—W. A. B. Bidrsall & Co., 44 Mechanic St., Newark, having plans prepared by A. F. Weber, City Hall, 2 story and basement, 100 x 250 ft., rein.-con., brick and steel, plain foundation, West Elizabeth Ave., here. $150,000.

N. J., Montclair—HOSPITAL—Montclair Community Hospital, 120 Harrison Ave. having sketches made by W. L. Walker, 103 Park Ave., New York City, 3 story and basement, brick and steel, plain and concrete pile foundation. $300,000. Noted June 2.

N. J., Newark—APARTMENT—Delavan Constr. Co., c/o E. Gerber, archt., 786 Broad St., having plans prepared 4 story and basement, brick and steel, plain foundation, 33 Romaine Pl. $150,000.

N. J., Newark—APARTMENT—Lincoln Ave. Holding Corp., c/o R. Bottelli, archt., 45 Branford Pl., having plans prepared 4 story and basement, 75 x 150 ft., brick and steel, plain fondation, 125 Lincoln Ave. $150,000.

N. J., Newark—APARTMENT—Wolcott Holding Co., c/o H. F. Clark, archt., 38 Clinton St., having plans prepared 5 story and basement, brick and steel, plain foundation, Stratford Pl. and Avon Ave. $175,000.

N. J., Newark — APARTMENTS — M. Weiss, 654 Lyons Ave., Irvington, having plans prepared by S. Cohen, 130 Branford Pl., seven 2 story and basement, 37 x 55 ft., brick and timber, plain foundations, Stecker St. $150,000.

N. J., Newark — CLUB — St. Josephs Council Italian Catholic Union, 118-7th Ave., having sketches made 3 story and basement, brick and steel, plain foundation, $150,000. Engineer and architects names witheld.

N. J., Orange—APARTMENT—Chanset Realty Co., c/o S. Cohen, archt., 130 Branford Pl., Newark, having plans prepared 5 story and basement, 45 x 115 ft., brick and steel, plain foundation, Central Ave. and Center St. $175,000.

N. J., Paterson — GARAGE and SHOWROOM—Cowega Realty Co., c/o A. E. Sleight, archt., Romaine Bldg., having revised plans prepared 2 story and basement, 215 x 250 ft. brick and steel, plain foundation, Allison Pl. $250,000.

N. J., Perth Amboy — APARTMENT—M. Balene, 3362 Hudson Blvd., Jersey City, having plans prepared by N. Welitoff, 3010 Hudson Blvd., Jersey City, 5 story and basement, brick and steel, plain foundation. High and Water Sts. $150,000.

N. J., Plainfield—APARTMENT—J. J. Schwartz, Inc., 240 Front St., having plans prepared by A. F. Amodio, 45 Branford Pl., Newark, 5 story and basement, 75 x 150 ft., brick and steel, plain foundation, $160,000.

N. J., Red Bank—HOTEL—Red Bank Hotel Co., Broad and Mechanic Sts., soon takes bids general contract, 9 story and basement, 125 x 400 ft., rein.-con., brick and steel, plain foundation, Riverside Ave., $650,000. N. Harris, 20 Branford Pl., Newark, archt Noted Sept 8

N. J., Ridgefield Park—APARTMENT—Regna Constr. Co., 229 23rd St., West New York, having plans prepared by F. Perna, 68 Hudson St., Hoboken, 4 story and basement, brick, steel and stone, plain foundation, here. $150,000.

N. J., South Orange—APARTMENT—C. Mariarty Constr. Co., c/o D. H. Trevor, archt., 45 Branford Pl., Newark, having plans prepared 4 story and basement, 125 x 175 ft., brick and steel, plain foundation, South Orange Ave., here. $400,000.

N. J., Teaneck (mail West Englewood)—APARTMENT—Billington Towers Corp., c/o G. W. Dexter, archt., Ft. Lee Trust Bldg., Main St., Ft. Lee, having plans prepared 4 story and basement, 85 x 150 ft., brick, plain foundation, West Englewood Ave., here. $150,000.

N. J., West New York — BANK and OFIFCE—First Natl. Bank of West New York, 440-16 St., having plans prepared by C. H. Muller, 322 15th St., brick and steel, plain foundation, Park Ave. and 19th St. $150,000.

Pa., Dormont (mail Pittsburgh)—THEATRE — Harris Amusement Co., Davis Theatre Bldg., Pittsburgh, having plans prepared by C. R. Giesler, Ferguson Bldg., Pittsburgh, 2 and 3 story and basement, irregular shaped, brick and steel, West Liberty Ave., here. $300,000.

Pa., Mayview—HOME and HOSPITAL Dept. Charities, Pittsburgh, having plans prepared by Erie Fisher Wood & Co., Hardy Hayes Bldg., Pittsburgh, 2 and 3 story and basement, 84 x 170 ft. city home and hospital, incl. attendants building, dormitory, cottages and superintendents home, near here. $2,500,000.

Maryland—HOSPITAL, etc.—Maryland Bd. Pub. Wks., Annapolis, plans new building for epileptic colony, Springfield State Hospital, $165,000; central power plant, kitchen and laundry, Maryland Training School for Boys, $125,000; new residence for warden, workshop, mechanical and electrical equipment for House of Correction, $180,000; enlarging and reconstructing building occupied by criminal insane at Spring Grove Hospital, Catonsville, $30,000; also gymnasium, auditorium and central heating plant at Frostburg State Normal School, $76,000.

W. Va., Huntington — HOSPITAL — Meanor & Handloser, archts., made plans and soon takes bids 5 story, 100 room, rein.-con., brick and steel addition to Kessler-Hatfield Hospital, 6th Ave. and 2nd St., for A. K. Kessler and H. D. Hatfield. $250,000.

O., Cincinnati—APARTMENT—M. Blossom, 521 Freeman Ave., having plans prepared by M. A. Kuller, 825 Rockdale Ave., 3 story and basement, brick and rein.-con., plain foundation, 8th St. $150,000.

O., Cleveland — STORE — Walker & Weeks, 2341 Carnegie Ave., soon let contract 3 story and basement, 34 x 26 ft., brick, steel and concrete, Euclid Ave. and East 22nd St., for A. J. Carlin, Euclid Hotel. $150,000.

O., Cleveland Heights (Warrensville P. O.)—COMMERCIAL, OFFICE and AUDITORIUM—J. F. Steffens, archt., 601 Fidelity Bldg., soon lets contract 1 and 2 story, 100 x 185 ft., brick, steel and concrete, Mayfield and Lee Rds., for Heights Temple Annex Co., c/o F. C. Becker, 1636 Lee Rd., Cleveland Heights. $175,000.

O., New Philadelphia — THEATRE—Thidelk Co. having plans perpared by C. Marr, modern theatre 1,800 seating capacity. $350,000.

O., Xenia—COTTAGES and HOSPITAL—Dept. Welfare, Columbus, J. E. Harper, dir. having sketches made by R. S. Harsh, 122 East Broad St., Columbus, 2 cottages and hospital, 2 story and basement, each, brick and concrete, here for Xenia Soldiers and Sailors Orphans Home. $160,000.

Ind., Washington — COURT HOUSE — Comrs. Davies Co. having preliminary plans prepared 3 story and basement, rein.-con., steel and stone court house. $300,000. R. M. Moren, aud. Engineer and architect not selected.

Ill., Belleville—HOTEL—Hotel Belleville Co., c/o Chamber of Commerce, soon takes bids 6 story and basement, 70 x 136 ft., rein.-con., brick and terra cotta, Public Sq. and South Illinois St. $500,000.

Ill., Chicago — APARTMENT — Russell Plans Corp., 450 East Ohio St., having plans prepared by W. Reichert & S. Finck, 35 South Dearborn St., 16 story and basement, 50 x 150 ft., brick and stone, 5421 Cornell Ave.

Ill., Harvey — HOTEL and STORE—Zimmerman, Saxe & Zimmerman, archts., 212 East Superior St., Chicago, made plans and soon takes bids 7 story and basement, 75 x 125 ft., rein.-con., brick and stone, Center Ave. near 154th St., here, for P. J. Telling. $300,000.

Mo., Jefferson City—OFFICE—State Hy. Comn., T. H. Cutler, ch. engr., soon takes bids 3 story and basement, rein.-con., brick and stone, South Capitol Ave. near Jefferson St., $350,000. Noted Apr. 28.

Mo., Poplar Bluffs—COURT HOUSE—Butler Co., C. E. Davenport chn. com., new election soon $265,000 bonds, 3 story court house. Former election defeated. Noted June 2.

Mo., St. Louis—APARTMENT and GARAGE—J. L. Woods, Arcadia Dance Hall, 3517 Olive St., having preliminary plans prepared by P. J. Bradshaw, International Life Bldg., 100 room, rein.-con., brick, stone and terra cotta, on 125 x 144 ft. site, Olive St. and Theresa Ave. $350,000.

Tex., Brenham—HOSPITAL—Washington Co., defeated $150,000 bonds, hospital S. D. Low, Brenham, co. judge.

Tex., Brownsville—AUDITORIUM—City plans 2 story auditorium. $500,000.

Tex., Gainesville—HOTEL—W. C. Hedrick, archt., 1005 1st Natl. Bank Bldg., Fort Worth, soon takes bids 6 story, 50 x 125 ft. hotel, here, for Turner Bros. $250,000.

Tex., Laredo — OFFICE — A. M. Bruni having plans prepared by Adams & Adams, c/o Builders Exch. Bldg., 6 story and part basement, rein.-con. and brick, plain foundation. $150,000.

Tex., San Angelo—HOTEL—R. A. Stokes & S. A. Ellzey, Duncan, Okla., had plans prepared 4 story and basement, rein.-con., brick and hollow tile, plain foundation, here. $250,000. Private plans.

Okla., Fairview — COURT HOUSE — Major Co. having plans prepared by Tonini & Bramblet, 416½ West Main St., Oklahoma City, rein.-con. and brick, plain foundation, Main St. $150,000. Noted July 23, 1925.

Okla., Oklahoma City — EXCHANGE and OFFICE—Southern Bell Telephone Co., 11th and Pine Sts., St. Louis, Mo., soon lets contract superstructure 14 story, 100 x 140 ft., rein.-con., brick, stone and steel, 3rd St. and Bway, here. Archts. total est. $3,000,000. I. R. Timlin, c/o owner, and Layton, Hicks & Forsyth, 906 Braniff Bldg., archts. Noted July 14.

Arizona and California—HOTELS—L. J. Sweeney, et al., c/o M. E. Durfee, archt., Commercial Exchange Bldg., Los Angeles, Calif., plans ten 2 story, Spanish type tourist hotels, in various cities in Arizona and California. $500,000.

Wash., Seattle—STORE—Standard Furniture Co., B. Schoenfeld, pres., 2nd Ave. and Pine St., plans 3 story, 140 x 180 ft., fireproof, 47th St. and Brooklyn Ave. $150,000. Private plans.

Wash., Seattle—STORE—F. McDermott, 2nd and Union Sts., having plans prepared by J. Graham, Dexter Hartman Bldg., Bon Marche Department Store, 5 story and basement, 535,000 sq. ft. floor space, 4th Ave. and Pine St. $2,000,000.

Wash., Seattle — WAREHOUSE—Standard Furniture Co., B. Schoenfeld, pres., 2nd Ave. and Pine St., plans 4 story, 120 x 185 ft., fireproof, Boren Ave. and Mercer St. $250,000. Private plans.

Calif., Los Angeles — APARTMENT — J. M. Haenke, archt., Subway Terminal Bldg., preparing preliminary plans 4 story and basement, brick, Serrano Ave. $150,000. Owners' name withheld.

Calif., Los Angeles — APARTMENT — Seventh & Normandie Corp., G. Edwards, pres., Edwards & Wildey Bldg., plans completing 8 story, 122 x 220 ft., rein.-con., 715 Normandie St. $200,000. L. Callahan & Sons, 718 Edwards & Wildey Bldg., archts.

Calif., Los Angeles—APARTMENT—L. L. Jones, archt., Douglas Bldg., preparing plans 5 story, 113 x 120 ft., brick, Normandie St. near 7th St. Owners name withheld.

Calif., Los Angeles—APARTMENT—W. W. Campbell, archt., 3036½ West 10th St., preparing plans 4 story and basement, 99 x 146 ft., brick, Wilshire Dist. $200,000. Owners name withheld.

Calif., Los Angeles—HOTEL—Dana Point Syndicate having plans prepared by C. A. Hill, 2699 Beechwood Dr., 3 story, 150 x 250 ft., rein.-con., at Dana Point. To exceed $150,000.

Calif., Riverside—Riverside Y. W. C. A. having plans prepared by J. Morgan, Merchants Exch. Bldg., San Francisco, and soon takes bids 1 and part 2 story, rein.-con. building. $150,000. Noted June 23.

Calif., Sacramento — THEATRE — J. H. Stephens, et al., 2531 H St., having plans prepared by G. A. Lansburgh, 140 Montgomery St., San Francisco, theatre, 2,500 seating capacity, J St. $700,000.

Calif., San Fernando—MOTION PICTURE STUDIO—Sterling Products Co., J. Rock, pres. Universal Studios, Los Angeles, plans motion picture studio, Olive Ave. near California St. $500,000. Engineer and architect not selected.

Ont., Ottawa — HOTEL — Blackburn Estate plans hotel, Sparks St. $500,000.

Ont., Ottawa—OFFICE—Wellington Investment Co., Ltd., having plans prepared by J. A. Evart, Jackson Bldg., Bank St., and soon takes bids 10 story and basement, rein.-con. brick and steel, plain foundation, Wellington St. $450,000.

Ont., Toronto — APARTMENT — F. J. Reynolds, 103 Merrick Ave., having plans prepared by H. J. Chown, 20 Wayland Ave., 3 story and basement, brick, stone and tile, concrete and brick foundation, Queen St. E. and Claude Ave. $160,000.

Ont., Toronto—APARTMENT—H. Davidson, c/o Kaplan & Sprachman, archts., 305

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Buildings—Commercial (Continued)

Dundas St., having plans prepared 3 story and basement, brick, stone and tile, Queen St., near Silverthorn Ave. $150,000.

Bids Desired

Mass., Boston — APARTMENT — See "Contracts Awarded."

Mass., Boston—QUARTERS—Sept. 28, by City, Hospital Dept., 3 story and basement, brick, plain foundation, Harrison Ave. $150,000. J. H. Ritchie & associates, 250 Stuart St., archts. Noted Aug. 18.

Mass., Dochester (br. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Greenfield—APARTMENT — See "Contracts Awarded."

Conn. Meriden — OFFICE — J. A. Bergeron, 21 Sylvan Ave., taking bids 4 story, brick and steel, West Main and Maple Sts. $150,000. L. Hamilton, 119 West Main St., archt. Noted July 21.

Conn., New Haven—LODGE—Lodge of Elks, S. E. Hoyt, chn. building comn., 195 Church St., taking bids 6 story, brick and steel, incl. bowling, billiard and sleeping rooms, Crown St. $300,000. A. W. Boylen, 30 Whitney Ave., archt. Noted May 12.

Conn., Norwich—WARD—Sept. 19, by F. S. Wilcox, supt. Norwich Hospital, two 3 story, brick and steel additions to state hospital. $400,000. Cudworth & Thompson, Disco Bldg., archts. Noted June 9.

N. Y., Brooklyn—HOSPITAL—Lord & Hewlett, archts., 2 West 45th St., New York City, taking bids 5 story, brick, Atlantic and Albany Aves., for St. Johns Hospital, 1521 Atlantic Ave., E. M. Stires, pres. $1,600,000. E. E. Seelye, 101 Park Ave., New York City, consult. engr. H. G. Wright, 289 4th Ave., New York City constr. engr.

N. Y., Scarsdale — APARTMENT — See "Contracts Awarded."

N. Y., Rochester—THEATRE and COMMERCIAL—Sept. 26, by Graven & Mayger, archts., 180 North Michigan Ave., Chicago, Ill., superstructure 3 story and basement theatre and commercial building, here, for Banorge Corp., New York City. Total $1,500,000.

N. J., Elizabeth — APARTMENT—See "Contracts Awarded."

N. J., Englewood — APARTMENT — See "Contracts Awarded."

N. J., Irvington (br, Newark)—APARTMENT—See "Contracts Awarded."

N. J., Newark — APARTMENT — See "Contracts Awarded."

Pa., Phila.—HOSPITAL—Sept. 22, by Thomas, Martin & Kirkpatrick, archts, 220 South 16th St., 3 story and basement, 45 x 120 ft., rein.-con., brick and steel maternity hospital, plain foundation, Corinthian and Girard Sts., for Lankenau Hospital. $150,000.

Pa., Phila.—SALE and SERVICE—Sept. 16, by P. S. Tyre, archt., 114 South 15th St., 2 story, 95 x 118 ft., rein.-con. and brick, plain foundation, 57th and Walnut Sts., for Ware Bros., c/o architect.

Pa., Pittsburgh—APARTMENT HOTEL and STORE—P. M. Julian, archt., 917-15th St., N. W., Wash., D. C., taking bids 10 story and basement, 115 x 200 ft., brick or terra cotta, here. $2,000,000. Owner's name withheld.

Md., Bridewell (mail Jessups)—CELL HOUSE—Sept. 22, by Bd. Welfare, Union Trust Bldg., Baltimore, 57 x 268 ft., brick and steel wing, 60 ft. high, $525,000. T. W. Pietsch, Amer. Bldg., Baltimore, archt. Noted June 23.

Tenn., Chattanooga—GARAGE—Sept. 29, by C. T. Jones, archt., James Bldg., 4 story and basement, 50 x 100 ft., rein.-con. and brick, for Broad Street Garage Co., $150,000. Noted Aug. 25.

O., Cleveland—THEATRE—Midwest Properties Co., S. H. Stecher, pres., 307 Union Bldg., taking bids and opens same about Sept. 15, 1 story and basement, brick, steel and concrete, 3,000 seating capacity, St. Clair Ave. and East 106th St. $400,000.

Ill., Chicago—BANK—Sept. 21, by C. S. Frost, archt., 105 West Monroe St., 8 story and basement, 28 x 129 ft., granite, brick and steel addition, 158-160 West Monroe St., for Northern Trust Co., Monroe and La Salle Sts. $750,000.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Oakland — PORTAL—G. Gross, clk. Alameda Co., taking bids and open same about Sept. 20, portal buildings for Oakland-Alameda Estuary tube. $150,000. H. H. Meyers, Kohl Bldg., San Francisco, archt.

Calif., Pasadena—APARTMENT—A Hill, archt., 301 Chester Williams Bldg., Los Angeles, taking sub-bids 4 story and basement, approximately 60 x 160 ft., brick, steel and stucco, Moreno St., here, for A. Fisher, c/o architect. Noted Aug. 11.

Calif., San Francisco—APARTMENT—See "Contracts Awarded."

Contracts Awarded

Mass., Boston—APARTMENT—M. and M. Carlin, 11 Beacon St., will build 2 units each 3 story and basement, 60 x 85 ft., brick, plain foundation, Byner St. and Huntington Ave., by day labor. Archts. est. $150,000. Eisenberg & Feer, 46 Cornhill, Boston, archts.

Mass., Boston—STORE and OFFICE—Hemenway Estate, c/o Shepard & Stearns, archts., 65 Franklin St., 6 story and basement, brick, steel, granite and limestone, plain foundation, 120-126 Newbury St., to W. A. and H. A. Root, 250 Stuart St., Boston. To exceed $150,000. Noted Aug. 18.

Mass., Boston—TEMPLE, etc.—Congregational Adath Israel Temple, H. Levi, rabbi 602 Commonwealth Ave., general contract 1 and 3 story and basement, irregular shaped, brick and stone temple, administration building wing, and community wing, Riverway, Longwood Ave., Berners and Plymouth Sts., to C. S. Cunningham Constr. Co., 80 Boylston St., plumbing, to P. W. Donahue, 170 Purchase St.; also heating and ventilating, to P. A. Dolan Co., 237 Bway. Archts. est. $1,000,000.

Mass., Brockton—CLUB—H. G. Sylvester, chn. Building, Com. Serville Council Knights of Columbus, 2 story and basement, 50 x 135 ft., brick, plain foundation, West Elm St., to T. F. Crowell & Son, 19 South St.

Mass., Dorchester (br. Boston)—APARTMENTS——P. Markovsky, 27 School St., Boston, will build 3 story and basement, brick and stone, plain foundation, 147 Columbia Rd., here. $200,000. Work will be done by separate contracts. S. E. Moffie, 51 Cornhill, Boston, archt.

Mass., Gardner—BANK — Gardner Co-operative Bank, Main St., 1 story and basement, rein.-con., brick and steel, plain foundation, Pleasant St., to J. W. Bishop Co., 109 Foster St., Worcester. Archts. est. $150,000. Noted Apr. 14.

Mass., Greenfield—APARTMENT—G. H. Reed, Montague City, will build 3 story and basement, 65 x 180 ft., brick and steel, plain foundation, Franklin St., here, $150,000. Work will be done by separate contracts. Kendall, Taylor & Co., 142 Berkley St., Boston, Mass., archts.

Mass., Greenfield—STORE and OFFICE—H. Cohn, Madison Circle, 2 story and basement, 75 x 110 ft., brick, plain foundation, Main St., to T. Gass, 259 Silver St., Springfield. Archts. est. $150,000. Noted Aug. 25.

Mass., Lawrence—BANK—J. E. Allen, archt., 283 Essex St., 1 and 2 story and basement, rein.-con., brick and steel, plain foundation, Essex and Hampshire Sts., to E. W. Pitman Co., 301 Essex St., for Bway. Savings Bank, W. E. Rowell, pres., 522 Essex St. Archts. est. $400,000. Noted Aug. 18.

Mass., Newton (Ind. br. Boston)—HOSPITAL, NURSES HOME and POWER PLANT—Newton Hospital, E. E. Kelsey, pres., Woodlawn St., 5 story and basement, irregular shaped, brick, steel and limestone, plain foundation, Washington and Beacon Sts., to Holt-Fairchild Co., 7 Water St., Boston. Archts. est. $1,500,000. Noted Dec. 30.

Mass., Waltham (br. Boston)—BANK—Waltham Natl. Bank, 1 story and basement, rein.-con., brick and steel, plain foundation, Moody and Brabch Sts., to A. A. Walsh, 211 Moody St. Archts. est. $150,000. Noted Aug. 25.

R. I. Providence—GARAGE, STORE and REPAIR SHOP—J. Ernstof, 94 Dorrance St., 1 and 2 story, brick and steel, plain foundation, Westminster and Washington Sts., to Balchin Constr. Co., 75 Westminster St. Archts. est. $50,000.

Conn., New Britain—BUSINESS—L. R. Raphael, 382 Main St., 5 story and basement, brick and steel, Main St. to S. C. Poriss & Co., 175 Enfield, Hartford. Archts. est. to exceed $150,000. Noted Aug. 11.

Conn., Stamford—APARTMENT—D. C. Ferdinand, 102 Crystal St., 3 story, 70 x 160 ft., rein.-con. and brick, Glenbrook St., to S. Ruderman, 32 Arthur St., New Haven. Archts. est. $150,000.

N. Y., New York — APARTMENT—V. Astor, 23 West 26th St., 15 story, brick and limestone, 86th St. between East End Ave. and Carl Schurz Park, to George A. Fuller Co., 949 Bway. Archts. est. approximately $1,000,000.

N. Y., New York—LOFT—Adanfa Constr. Co., 14 story, 82 x 100 ft., rein.-con., 343 West 52nd St., to Turner Constr. Co., 420 Lexington Ave.

N. Y., New York—SERVICE STATION—Ortcar Realty Corp., 6 story, 100 x 200 ft., rein.-con., 211 West 61st St., to Turner Constr. Co., 420 Lexington Ave.

N. Y., Scarsdale — APARTMENT — Eton Hall, Inc., 12 East 41st St., New York City, will build 6 story, 110 x 113 ft., brick, Bronx River and Parkway, Scarsdale Manor. $280,000. Work will be done by separate contracts under supervision G. A. Bagge & Son, archts., 157 East 44th St., New York City.

N. J., Asbury Park—H. E. Warren & L. E. Smith, archts., 247 Park Ave., New York City, 4 story, 100 x 157 ft., rein.-con., brick and steel, plain foundation, Monroe Ave., here, to I. R. Taylor, Asbury Park, for Y. M. C. A., 347 Madison Ave., New York City. Approximately $350,000. Noted May 12.

N. J., Elizabeth — APARTMENT—Holberg & Posnock, 1141 Warren Ave., Roselle, will build 4 story and basement, 60 x 110 ft., brick and steel, plain foundation, Jersey Ave. and Berwick St., $150,000. Work will be done by separate contracts. L. Kasoff, 164 Market St., Newark, archt. Noted Aug. 25.

N. J., Elizabeth—APARTMENTS—Fleetwood Realty Co., 340 Pennington St., will build two 4 story and basement, brick and steel, plain foundations, Stiles and Chilton Sts., $150,000. Work will be done by separate contracts. A. J. Silberstein, 60 Park Pl., Newark, archts.

N. J., Englewood—APARTMENT—Busch Bros., 61 West Palisade Ave., will build 5 story and basement, brick and steel, plain foundation, 98-100 Charles St. $150,000. Work will be done by separate contracts. G. W. Harvey, 186 East Palisade Ave., archt.

N. J., Irvington (br. Newark)—APARTMENTS—Rutgers Realty & Constr. Co., 20 Clinton St., Newark, will build sixteen 2 story and basement, 35 x 55 ft., brick, plain foundations, Columbia and Munn Aves., here. $270,000. Work will be done by separate contracts. V. H. Strombach, 1243 Springfield Ave., archt.

N. J., Newark — APARTMENT — H. Cohen, 45 Branford Pl., will build 5 story and basement, 50 x 100 ft., brick and steel, plain foundation, 6th Ave. and 9th St. $150,000. Work will be done by separate contracts. L. Kasoff, 164 Market St., Newark, archt. Noted Aug. 18.

N. J., North Bergen (br. Weehawken)—APARTMENT—R. Francesconi, 39 18th St., West New York, will build 5 story and basement, brick, steel and stone, plain foundation, Bergenline Ave. and 32nd St. $150,000. Work will be done by separate contracts. G. Willaredt, 411 23rd St., West New York, archt. Noted Aug. 11.

N. J., Ridgewood—HOSPITAL—Bergen Co. Hospital, Paramus Rd., general contract 3 story and basement, brick and steel, plain foundation, Bergen Pines, to F. and C. Haerter, 769 Dewey Ave., West New York, $89,024. Noted May 5.

Pa., Phila.—APARTMENT—W. J. Carlisle, 1405 Tioga St., 3 story and basement, 30 x 193 ft., and 30 x 80 ft., brick and steel, plain foundation, 3213-19 North 17th St., to M. P. Wells, 3229 North 17th St. Archts. est. $190,000.

Pa., Pittsburgh—CLUB—Keystone Athletic Club, Westinghouse Bldg., general contract 21 story and basement, 46 x 100 x 100 ft., brick, steel and terra cotta, 3rd Ave. and Wood St., to Mellon Stuart Co., Oliver Bldg. Archts. est. $1,900,000.

O., Cincinnati—APARTMENT HOUSE—Auburn Apartment Co., 900 Neave Bldg., 3 story and basement, 100 x 218 ft., brick and rein.-con., plain foundation, Auburn St., to F. M. Erwin, 900 Neave Blvd., $200,000.

O., Cleveland—BANK, COMMERCIAL and THEATRE—International Building & Loan Co., 6285 St. Clair Ave., 2 story and basement, 91 x 170 ft., brick, steel and concrete, East 185th St. and Kildeer Ave., to Satkovic Bros., 6411 St. Clair Ave. Archts. est. $200,000.

Ill., Chicago—APARTMENT—R. B. Kurzon, archt., 105 West Monroe St., masonry and concrete contract 14 story and basement, 50 x 160 ft., 434 Roscoe St., to A. Lindstrom Co., 77 West Washington St.; cut stone, to F. Karge, 5844 South Bishop St., for Four Hundred and Thirty-four Building Corp., c/o architects. Noted June 27.

Ill., Chicago—HOTEL—H. Dalsey, archt., 64 West Randolph St., masonry and concrete contract 5 story, 91 x 128 ft., rein.-con., brick and terra cotta, 835-41 Sheridan Rd., to W. G. McNulty & Bros., 58 East Washington St.; stone, to Fluck Cut Stone Co., 1235 East 74th St., for Sher-Lane Building Corp., c/o architect. Archts. est. $500,000. Noted Apr. 14.

Ill., Chicago—OFFICE—Graven & Mayger, archts., 180 North Michigan Ave., general contract 23 story and basement, 91 x 96 ft., brick and terra cotta, La Salle and Washington Sts., to Lundoff-Bicknell Co., 180 North Michigan Ave., for Buildings Development Co., 160 North La Salle St., C. L. Schwerin, pres.

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Buildings—Commercial (Continued)

Mo., Maplewood (br. St. Louis)—APARTMENT HOTEL—Brown Realty Co., 7161 Manchester Ave., will build 2 story and basement, 125 x 135 ft., rein.-con., brick and terra cotta, 7167-7171 Manchester Ave., by day labor. $150,000.

Calif., Fresno—HOSPITAL—Sisters of Holy Cross, South Bend, Ind., rein.-con. here, to Barrett & Hilp, 918 Harrison St., San Francisco, $250,000. Noted Sept. 1.

Calif., Los Angeles — APARTMENT — West Coast Income Properties, Inc., 1544 Glendale Blvd., will build 4 story and basement, brick, South Beacon St., by day labor. $150,000.

Calif., Los Angeles — APARTMENT — H. L. Soper, 5 story, 90 x 120 ft., brick and steel, Normandie St. between 7th and 8th Sts., to Hennessy Bros. & Co., Inc., 701 Lane Mortgage Bldg., $350,000.

Calif., Los Angeles—HOTEL—Central Investment Co., Grand Ave. near 5th Ave., 12 story and basement, 137 x 210 ft., rein.-con., brick, terra cotta and steel addition, to Scofield Eng. Constr. Co., 1100 Pacific Finance Bldg., $2,250,000.

Calif., San Francisco — APARTMENT — Marian Realty Co., 110 Sutter St., will build 7 story and basement, rein.-con. and steel, Franklin and Bway. Sts., by day labor. $250,000. D. D. Stone, 354 Hobart St., Oakland, archt.

Calif., San Francisco—APARTMENT—Veyhle & Collins, 301 Humboldt Bank Bldg., will build 6 story and basement, brick and steel, Ellis St., near Hyde St., by day labor. $150,000.

Calif., San Francisco — DEPARTMENT STORE—I. Magnin Co., Stockton and O'Farrell Sts., 1,800 tons steel for 8 story and basement addition, to U. S. Steel Products Co., Russ Bldg. Archts. total est. $400,000.

Calif., Santa Monica — CLUB — Ford & Becker, 607 South Western Ave., Los Angeles, 2 story, 161 x 300 ft., Crystal Pier, here, to Fortine & Meikle, 509 South Western Ave., Los Angeles, $350,000.

Calif., Stockton — CHURCH — First Church of Christ Scientist, brick and timber, Center and Flora Sts., to Lewis & Green, Commercial & Savings Bank Bldg., approximately $165,500.

Ont., Cornwall — HOTEL — Community Hotel Co., 5 story and basement, rein.-con., brick and steel, here, to C. Holbrook & Son, 408 Elgin St., Ottawa, $150,000.

Ont., Toronto — APARTMENT — Independent Builders, Ltd., Temple Bldg., general contract 3 story and basement, rein.-con., brick and steel, plain foundation, Bloor and Markham Sts., to L. Coldoff & Co., 313 Grace St. Archts est. $160,000.

Ont., Toronto—APARTMENT—M. J. Ingram, Kingston Rd., masonry contract 3 story and basement, rein.-con., brick and steel, plain foundation, Woodbine Ave. and Queen St. E., to J. J. Bartlett & Co., 94 Barrington Ave.; carpentry to G. Couchmar., 166 Pickering Ave.; plumbing and heating, to G. Beavers, 210 Bingham Ave. Engrs. est. $250,000. Steam heating, etc., to be installed.

Buildings—Industrial

Proposed Work

Mass., Arlington (br. Boston) — SUBSTATION — Edison Electric Illuminating Co., 39 Boylston St., Boston, having plans prepared by Bigelow & Wadsworth, 120 Tremont St., Boston, 2 story, 35 x 110 ft., brick electric sub-station, plain foundation, here.

Mass., Boston—SERVICE—Packard Motor Car Co., East Grand Blvd., Detroit, Mich., having sketches made by A. Kahn, Inc., Marquette Bldg., Detroit, Mich., 1 story, rein.-con. and steel addition, plain foundation, Commonwealth Ave., here.

Mass., Malden—SALESROOM and SHOP—Palmer-Muller Co., 60 Franklin St., having sketches made by C. F. Springall, 84 Sprague St., 2 story, brick, plain foundation, Franklin St. $40,000.

R. I., Woonsocket—DYE HOUSE—Florence Dye Wks., 53 South Main St., plans dye house addition. $40,000 or more. Private plans.

Conn., Springdale — MILLS — Stamford Rolling Mills having plans prepared by Fletcher-Thompson, Inc., 542 Fairfield Ave., Bridgeport, rebuilding 1 story, 112 x 215 ft. steel mills, recently destroyed by fire. $40,000.

N. J., New Brunswick—POWER HOUSE—Pub. Serv. Corp., 80 Park Pl., Newark, having plans prepared by Pub. Serv. Production Co., 80 Park Pl., Newark, 2 story, brick and steel addition plain foundation, Albany St., here. $40,000.

Pa., Phila.—CIGAR FACTORY—A. Freeman, archt., 29 West 34th St., New York City, soon lets contract 8 story and basement, 119 x 125 ft., rein.-con. and brick addition, plain foundation, 9th and Columbia Sts., here, for Columbia Realty Co., 9th and Columbia Sts. $650,000.

Pa., Pittsburgh — LAUNDRY — P. & O. Laundry Co., Neville St., having plans prepared 2 story and basement, 61 x 134 ft., rein.-con., brick and steel, Neville St. $80,000. Private plans.

Maryland—POWER PLANT, LAUNDRY and WORKSHOP—See "Buildings—Commercial."

Minn., Rochester—BAKERY—Rochester Baing Co. having plans prepared by L. B. Bersbach, Northwestern Natl. Life Bldg., Minneapolis, 3 story and basement, 86 x 130 ft., rein.-con., brick, stone and steel here. $75,000.

Mo., St. Louis—LAUNDRY—Holloran & Klaus Co., 1517 Clark Ave., having plans prepared by O. J. Krieg, 821 Wainwright Bldg., altering and constructing 2 story and basement, 50 x 91 ft., rein.-con., brick and steel addition. $60,000.

Ark., White Cliffs—CEMENT MILL—Lime Products Co., A. B. Banks, pres., Home Insurance Bldg., Little Rock, will not construct 500,000 bbl. per yr. cement mill, etc., here. Project abandoned. Lund Engr. Co., Home Insurance Bldg., Little Rock, engrs. Noted June 23.

Tex., Dallas—REFRIGERATION PLANT—Stevenson Eng. Co., c/o F. O. Stevenson, pres., Natl. Bank Bldg., Ft. Worth, soon takes bids ammonia plant 1,000 tons p.d. with mains, laterals, etc., here. $1,000,000.

Tex., Fredericksburg — CREAMERY—Co-operative Creamery, c/o A. Neffendorf, Fredericksburg, plans creamery plant $40,000.

Tex., Groesbeck—BRICK PLANT—Groesbeck Standard Brick Co., soon takes bids brick plant. $50,000.

Tex., Houston — WAREHOUSE — A. S. Bergendahl, archt. and engr., Union Natl. Bank Bldg., soon takes bids terminal warehouse, incl. space for 6 ships, dredging to depth 30 ft., Amer. Fruit Corp., Post-Dispatch Bldg. $1,000,000.

Calif., Richmond—CHEMICAL PLANT—Winehaven Chemical Co., 433 California St., San Francisco, having preliminary plans prepared by Oscar Krenz Copper & Brass Wks., 4th and Bryant Sts., San Francisco, plant addition, here. $300,000 incl. equipment.

Ont., Sarnia — DISTILLERY — Sarnia Cognac & Distilling Co. plans 1, 2 and 3 story, brick, steel and stone additions, concrete foundations. $500,000. Engineer and architect not selected. Brick walls, wood and concrete flooring, timber roofing.

Ont., Toronto—PAPERBOARD MILL—Canadian Paperboard Co., HO2 Seigneurs St., Montreal, Que., plans mill, incl. machine building, 350 ft. long, beater building, machine shop, offices, boiler plant, engine building and pump room, mostly 1 story, concrete, here. Kerry & Chase, Ltd., Confederation Life Bldg., Toronto, engrs. $500,000.

Bids Desired

Mass., Brockton—TRANSFORMER STATION—See "Contracts Awarded."

Mass., Chelsea (br. Boston) — REPAIR and SERVICE GARAGE — See "Contracts Awarded."

Mass., Jamaica Plain (br. Boston)—KNITTING MILL—Owner, c/o J. Murray, archt., 101 Tremont St., Boston, taking bids 1 story and basement, 65 x 160 ft., brick, concrete foundation, here. $40,000.

Mass., Newton (Ind. br. Boston)—FACTORY—See "Contracts Awarded."

N. Y., Albany — LABORATORY — Sept. 29, by Commissioner Health, Dept. Health, Div. Laboratories & Research, constructing west wing, west and east stable units, power house and tunnels. S. W. Jones, Capitol, state archt.; adv. E. N.-R. Sept. 15. Noted June 23.

N. J., Bayonne—ICE PLANT—See "Contracts Awarded."

Ind., Evansville — SHOP and WAREHOUSE—See "Contracts Awarded."

Ark., Little Rock—PLANING MILL—See "Contracts Awarded."

Ark., White Cliffs — CEMENT MILL — See "Contracts Awarded."

Tex., Waco—BAKERY—See "Contracts Awarded."

Contracts Awarded

Me., Rockland — GARAGE and REPAIR SHOP—New England Pub. Serv. Corp., G. C. Welsh, Augusta, 1 story, rein.-con., plain foundation, here, to J. A. Greenleaf & Sons, 20 Washington St., Auburn. Archts. est. $40,000.

Mass., Brighton (br. Boston) PLANT—Boston Ice Co., 110 State St., 1 story, 100 x 170 ft., brick and limestone, North Beacon and Hichborn Sts., to Scully Co., Kendall Sq. Bldg., Cambridge.

Mass., Brockton—GARAGE and WELDING SHOP—P. Wychunas, 50 Ames St., Montello, 1 story, rein.-con., plain foundation, Montello and Ames Sts., here, to P. E. Person, 2 Pauline Ave. Archts. est. $10,000. Noted July 21.

Mass., Brockton—TRANSFORMER STATION—Edison Electric Illuminating Co., A. F. Nelson, mgr., 42 Main St., will build 1 story brick, Ames St. Work will be done by separate contracts. Private plans.

Mass., Cambridge (Boston P. O.)—REPAIR and SERVICE GARAGE—McSorley Bros., 456 Bway., 1 story, rein.-con., plain foundation Bway., to M. W. Ryan, 763 Massachusetts Ave. Archts. est. $45,000. Noted Aug. 4.

Mass., Chelsea (br. Boston) — REPAIR and SERVICE GARAGE — H. B. Cloper, 472 Bway., will build 1 story, 70 x 175 ft., brick, concrete and stone, 62 Bway. $50,000. Work will be done by separate contracts. Eisenberg & Feer, 46 Cornhill, Boston, archts.

Mass., Everett — LAUNDRY and GARAGE — Glendale Laundry, Inc., 749 Bway., 2 story, 120 x 150 ft., rein.-con., brick and steel, plain foundation, to E. J. Rappoli, 32 Moulton Rd., Arlington. Engrs. est. $100,000. Noted Aug. 25.

Mass., East Bridgewater—FACTORY—Fields Bros. Shoe Co., W. Field, in charge, North Middleboro, 1 story, 95 x 175 ft., brick, concrete foundation, near Depot, here, to E. L. Morrill & Co., 17 Shell Pl., Brockton. Archts. est. $40,000.

Mass., Holyoke — PLANT — General Cleansers & Dyers, Inc., 403 High St., 1 story and basement, 520 x 75 ft., brick, plain foundation, 361 South St., to W. K. Traquir, Harrison St., Holyoke. Noted Aug. 4.

Mass., Lowell—PUBLISHING PLANT—Courier-Citizen Co., Kearney Sq., W. Spence, treas., altering 4 story, brick, concrete press foundation, incl. steel bridge connecting 2 buildings over canal, to F. S. Meloy, 9 Central St. Archts. est. $40,000. Noted Aug. 4.

Mass., Medford (br. Boston)—REPAIR and SERVICE GARAGE—L. Risman, 85 Central St., 1 story brick and steel addition, plain foundation, 14,000 sq.ft. floor space, Salem St., to Frankini Bros. Co., Inc., 30 Mystic Ave. Archts. est. $50,000.

Mass., Newton (Ind. br. Boston)—FACTORY—New England Concrete Pipe Corp., 79 Milk St., Boston, will build 1 and 1½ story, 160 x 160 ft., concrete, plain foundation, 109 Needham St., here, by day labor. To exceed $40,000. Private plans. BLDG.

Mass., Somerville (br. Boston)—SERVICE—Edison Electric Illuminating Co., 39 Boylston St., Boston, altering and constructing 1 story, brick and steel addition, plain foundation, Willow St., here, to J. F. Fitzgerald Constr. Co., 38 Chauncy St., Boston.

Mass., Springfield — PLANT — Package Mchy. Co., 1 story and basement, 37 x 112 ft. plant addition, to F. T. Ley & Co., Inc., 1215 Main St.

Mass., Wakefield—HEATING PLANT—A. G. Walton, 108 Main St., 1 story, rein.-con. addition, plain foundation, to C. Doyle, Jordan Ave.

Mass., Webster—MILL — Stevens Linen Wks., Dudley St., altering and constructing 2 story, basement and tower, 55 x 155 ft., rein.-con., brick and stone addition, plain foundation, Dudley St., to J. W. Bishop Co., 683 Atlantic Ave., Boston. Archts. est. $100,000. Noted Aug. 25.

R. I., Providence—SALES, SERVICE and REPAIR SHOP — Beacon Warehousing Trust, 79 Milk St., Boston, 1 story, 100 x 200 ft., brick and steel, plain foundation, North Main and Caroline Sts., here, to W. A. Sanborn, 79 Milk St., Boston, Mass.

Conn., Greenwich—PRINTING PLANT—W. Higginson, archt., 101 Park Ave., New York City, 1 story, 55 x 70 ft., and 60 x 200 ft., rein.-con., steel and concrete, Post Rd., here, to E. & F. Constr. Co., 94 Wells St., Bridgeport, for Conde Nast Publishing, Inc. Archts. est. $75,000.

N. J., Elizabeth—FACTORIES—H. V. Walker, 17 John St., New York City, general contract 1 and 3 story, brick and steel, plain foundations, Division St., to Wilhelms Constr. Co., 119 Division St. Archts. est. $40,000.

Pa., Allentown — DYE PLANT and POWER HOUSE—Arcadia Mills, 74th St. and Pittston Ave., 1 story, 90 x 150 ft. dye plant, and 1 story, 70 x 70 ft. power house, rein.-con., brick and steel, plain foundations, to Ochs Constr. Co., 440 Wire St.

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Buildings—Industrial (Continued)

Pa., Phila.—BAKERY, GARAGE, etc.—C. B. Comstock, archt., 110 West 40th St., New York City, 3 story and basement 220 x 310 ft. bakery, 1 story and basement, 61 x 191 ft. garage, and 2 story and basement, 93 x 189 ft. stable, etc., all rein.-con. and brick, Godfrey St. and Rising Sun Ave., here, to W. Steele & Sons Co., 15th and Cherry Sts., for General Baking Co., Broad St., Butler. Noted Sept. 1.

Pa., Phila.—MILL—Penn Worsted Co., York and Jasper Sts., 5 story and basement, 33 x 150 ft., rein.-con. and brick, plain foundation, Boston Ave. and Jasper St., to M. H. Wilson Co., 20 South 15th St. Archts. est. $70,000.

N. J., Bayonne—ICE PLANT—F. and L. Mongiello, 74 West 23rd St., will build 1 story, 50 x 100 ft., brick and steel, plain foundation, 78-84 West 23rd St. $40,000. Work will be done by separate contracts. Private plans.

N. J., Linden—FACTORY and OFFICE—Radio Electric Clock Co., 50 Church St., New York City, general contract 1 story, 40 x 100 ft., and 60 x 100 ft., rein.-con., brick and steel, plain foundation, Vreeland Mills Rd., to Wilhelms Constr. Co., 119 Division St., Elizabeth. Archts. est. $55,000. Noted July 14.

N. J., Milford—PAPER PLANT—Warren Mfg. Co., 342 Madison Ave., New York City, 2 story, 81 x 225 ft. machine room, 2 story, 72 x 144 ft. finishing building, 25 x 180 ft. train shed, 2 story, 30 x 70 ft. office building, etc., here, to H. K. Ferguson Co., Hanna Bldg., Cleveland, O. Archts. est. $300,000.

N. J., Newark—PLANT—C. B. Comstock, archt. and engr., 110 West 40th St., New York City, general contract 2 story, 65 x 90 ft., rein.-con., brick and steel, plain foundation, Bergen St., here, to C. R. Hedden, Co., 357 South Orange Ave., for General Baking Co., 420 Lexington Ave., New York City. Archts. est. $75,000. Noted Aug. 25.

N. C., Kannapolis—BLEACHERY—Cannon Mfg. Co., bleachery addition, to W. O. Pratt, Mount Holly, $250,000.

O., Barberton—FACTORY—Sun Rubber Co., two factory units, 2 story, Mark Rd., to Austin Constr. Co., East 152nd St., Cleveland, $50,000.

O., Cleveland—FACTORY—F. C. Thornton Co., 6712 Union Ave., 1 story, 35 x 136 ft., brick and steel, 6712 Union Ave., to Industrial Constr. Co., 308 Euclid Ave. Archts. est. $40,000.

O., Cleveland—FACTORY and WAREHOUSE—Elyria Iron & Steel Co., H. B. Wick, pres., 232 East 131st St., 1 story, 140 x 159 ft., brick and steel addition, to H. K. Ferguson Co., 4900 Euclid Ave. Archts. est. $75,000.

O., Cleveland—PLANT—River Smelting & Refining Co., 4195 Bradley Rd., general contract, 1 story, 48 x 56 ft., brick and steel, Bradley Rd., to Griffin-Zimmerman Co., Engineers Bldg. Archts. est. approximately $40,000. Noted June 16.

Ind., Evansville — SHOP and WAREHOUSE—Roxana Oil Co., will build brick and steel, East Columbia St., by day labor. Archts. est. $46,000.

Wis., Milwaukee — GARAGE — Netter-Heiser & Co., 704 Wisconsin Ave., general contract 1 story, 120 x 230 ft., brick and steel, 5000 Lisbon Ave., to R. W. Dwyer, 187 27th St. Archts. est. $50,000.

Wis., Wauwatosa—LAUNDRY—Peacock & Frank, archts., 445 Milwaukee St., Milwaukee, general contract 2 story and basement, 73 x 116 ft., rein.-con. and brick, plain foundation, Wisconsin Ave., here, to T. Stark & Co., Muskego Ave., Milwaukee, for Wauwatosa Family Laundry Co. Archts. est. $125,000. Noted Aug. 18.

Mo., St. Louis — PULVERIZING MACHINERY FACTORY — Amer. Pulverizer Co., E. E. Elzemeyer, pres., 18th and Austin Sts., 2 story, 79 x 140 ft., brick, concrete and steel, concrete foundation, 1319 Macklind Ave., to W. C. Harting Constr. Co., International Life Bldg.

Ark., Little Rock—PLANING MILL, etc.—Arkmo Lumber Co., Rector Bldg., will build 1 story, 72 x 80 ft. timber and concrete planing mill, 1 story, 50 x 300 ft. warehouse, 1 story, 20 x 100 ft. dry kiln, 1 story, 18 x 60 ft. boiler house, 1 story, 24 x 600 ft. lumber storage building, 1 story, 40 x 50 ft. office building and 30 x 120 ft. timber dock, etc., West Bway. and 4th St., by day labor. $100,000.

Ark., White Cliffs—CEMENT MILL, etc.—Ideal Cement Co., Denver, Colo., C. Goettcher, pres., will build two kiln wet process cement mill, 2,500 bbl. daily capacity, etc. here, by day labor under supervision of M. C. Matthews, Ada, Okla. $2,000,000. Private plans.

Tex., San Antonio—FACTORY—Gebhardt Chilli Powder Co., 112 South Frio St., general contract 2 story, 70 x 100 ft., rein.-con. brick and part steel, plain foundation, to L. T. Wright & Co., 908 Builders Exch. Bldg., approximately $34,000. Noted Aug. 4.

Tex., Waco—BAKERY—C. J. Patterson Corp., will build 2 story, concrete brick and steel, by day labor. $125,000 incl. equipment. Private plans.

Okla., Okmulgee—PLANT—Pine Glass Co., 1 story, 80 x 170 ft., steel, plain foundation, to Muskogee Iron Wks. Co., Frankfort and Spaulding Sts., Muskogee. $80,000. Noted May 19.

Calif., Los Angeles — PRODUCE TERMINAL — Central Mfg. Dist. Co., Loma Vista St., (1st unit) 1 story, rein.-con., to W. P. O'Neil Co., Inc., 48-14 Loma Vista St., approximately $1,500,000. Total $3,500,000.

Calif., Los Angeles—FACTORY—Western Lithograph Co., Rose St., 3 story, 75 x 120 ft. with 25 x 25 ft. wing, rein.-con., Rose St. near 2nd St., to J. F. Rhodes, 612 Pershing Sq. Bldg., $57,250.

Calif., San Francisco — COOPERAGE PLANT — Bauer Cooperage Co., 55 Hampshire St., 1 story, steel and corrugated iron, Keith St., to Michel & Pfeffer, Harrison and 10th Sts., approximately $40,000. Noted Aug. 4.

Ont., Hamilton—PLANT—Hamilton By-Product Coke Ovens Ltd., motor benzol plant, to Semet-Solvay Eng. Corp., 40 Rector St., New York City, approximately $400,000.

Buildings—Educational, Religious

Proposed Work

Mass., Boston—CHURCH—Holy Name Parish, W. P. McNamara, pastor, 1689 Centre St., West Roxbury, plans raising funds to exceed $150,000, church, Centre St., here. Engineer and architect not selected.

Mass., Fall River — CHURCH and PARISH HOUSE — St. Johns Episcopal Church, H. I. Fair, pastor, having preliminary plans prepared by C. C. Coveney, 184 Boylston St., Boston, 1 and 2 story and basement, brick and stone, plain foundation, 689 Middle St. $150,000 or more.

Mass., Fall River—TECHNICAL HIGH SCHOOL—City, c/o W. Pritchard chmn. com., having preliminary plans by J. F. Cullen, 29 Newbury St., Boston, and E. M. Corbett, 70 Bedford St., 2 and 3 story and basement, brick and stone, plain foundation, Rocks St. $1,000,000. Noted May 19.

Mass., Revere (br. Boston)—CHURCH—Our Lady of Lourdes, J. Cronan, pastor, 1 Endicott Ave., takes bids after Sept. 15, altering and constructing 1 story and base- and stone addition, plain foundation, Endicott Ave., Beachmont Sect. $150,000. W. W. Drummey. Inc., 80 Boylston St., Boston, archt.

Mass., West Roxbury (sta. Boston)—SCHOOL—City of Boston, Schoolhouse Dept., takes bids after Sept. 19, 2 story and basement school, Russett Rd., Robert Gould Shaw Dist., here. $220,000. M. A. Syer, 1 Beacon St., Boston, archt. Noted May 26.

R. I. Providence—CONVENT—House of Good Shepard, c/o Sister Mary Francis, plans 6 buildings, Eaton St. $150,000 or more. A. J. Murphy, 25 Fenner St., arch.

Conn., West Hartford (br. Hartford)—SCHOOL—B. I. Miller, town, mgr., Town Hall, having revised plans prepared by R. F. Barker, 43 Farmington Ave., Hartford, 2 story and basement, 62 x 205 ft., brick and steel school Elmwood section. $250,000. Former bids rejected. Noted Aug. 18.

N. Y., Schenectady — HIGH SCHOOL — Bd. Educ. having plans prepared by R. L. Bowen, 207 State St., high school, Mont Pleasant section. $250,000.

N. J., North Bergen (Ind. br. Weehawken)—SCHOOL—Bd. Educ. soon takes bids general contract P. S. 9, 3 story and basement, 150 x 175 ft., brick and steel, plain foundation, 38th and 39th Sts., between Hudson Blvd. and Medway Pl. $850,000. F. Hensel, 254 Summit Ave., Union City, archt. W. Weir, 254 Summit Ave., Union City, associated archt.

N. J., Ridgewood—SCHOOL—Bd. Educ., 1 Franklin Ave., soon takes bids general contract Grade and Junior High School, 3 story and basement, brick and steel, plain foundation, Monroe St. $460,000. Fanning & Shaw, 49 Ward St., Paterson, archts. Noted July 21.

N. J., Summit—HIGH SCHOOL—Bd. Educ., 272 Morris Ave., soon takes bids 2 and 3 story and basement, brick and steel, addition, plain foundation. $200,000. Guilbert & Betelle, 20 Branford Pl., Newark, archts. Noted July 7.

Pa., Lansdowne — HIGH SCHOOL — School Bd., F. S. Underhill, 112 North Broad St., Phila., rejected bids Aug. 30, Junior and Senior High School, Green and Highland Sts. Will readvertise. Noted Aug. 25.

Va., Harrisburg—HIGH SCHOOL—W. H. Keister, supt. Harrisonburg High School Dist. takes bids about Sept. 15, (1st unit) 3 story, rein.-con. and brick high school. $160,000. Total $340,000.

O., Columbus—SCHOOL—Bd. Educ., W. V. Drake, clk., having revised plans prepared by H. D. Smith, 207 East State St., Junior High School, 2 story and basement, 200 x 250 ft., brick and concrete, Indianola Park. $325,000.

O., Shaker Heights (br. Cleveland)—CHURCH and PARISH HOUSE—Christ Church c/o E. G. Mapes, pastor, 3321 Dorchester Rd., Cleveland Heights, plans 1 and 2 story, brick and steel church and parish house, here. $150,000. Engineer and architect not selected.

Ind., Indianapolis — CHURCH — First Presbyterian Church, 16th and Delaware Sts., having plans prepared by Foltz & Osler, 704 Wild Bank Bldg., remodeling and constructing 1 story, 58 x 110 ft., brick steel and stone top addition, $150,000. Bevington & Williams, 1139 Indiana Pythian Bldg., engrs.

Mich., Battle Creek — CHURCH — First Presbyterian Church, c/o A. B. Chanel, archt., 717 Post Bldg., having plans prepared 2 story and basement, 83 x 127 ft., steel, brick and stone, incl. auditorium and gymnasium, plain foundation, Maple St. $200,000.

Ill., Chicago — SYNAGOGUE — E. P. Steinberg, archt., 360 North Michigan Ave., prepared plans and soon takes bids 3 story and basement, 105 x 125 ft., brick and stone, 1439-1447 Pratt Blvd., for Temple B'Nai Zion, c/o architect. $250,000. Noted June 23.

Ill., East St. Louis—SCHOOL—Bd. Educ., J. S. Pidgeon, secy., 600 St. Louis Ave., rejected bids Aug. 22, 2 story and basement, 66½ x 131 ft., rein.-con., brick and stone, 74th St. near State St. $150,000. J. G. Steinbach, 155 North Clark St., archt. Noted Aug. 18.

Ark., Ft. Smith—HIGH SCHOOL—Bd. Educ., c/o G. C. Hardin, pres., soon takes bids 3 story, concrete and brick, North 23rd and B Sts. $300,000. Perkins, Chatten & Hammond, 160 La Salle St., Chicago, Ill., archts.

Tex., San Antonio—SCHOOL and AUDITORIUM—San Fernando Cathedral, takes bids after Sept. 15, 3 story and part basement, rein.-con., brick and tile, plain foundation, Laredo St., between Travis and Houston Sts. $150,000. L. M. J. Dielmann, 306 East Commerce St., archt. Noted Aug. 4.

Wash., Seattle — CHURCH — J. A. Creutzer, archt., Medical & Dental Bldg., preparing plans 3 story and basement, fireproof church, incl. 99 classrooms, 4 assembly halls, 2 basketball and one handball court, on 120 x 120 ft. plot, near 7th Ave. and Spring St., for Presbyterian Church, M. A. Matthews, pastor. $200,000.

Wash., Seattle—SCHOOL—F. A. Naramor, archt., Central Bldg., takes bids about Oct. 29, 3 story and basement, fireproof intermediate school, 1,200 seating capacity, 45th St. S. W. and West Spokane St., for Seattle School Dist. 1, Central Bldg. $550-000. Noted June 2.

Calif., Huntington Park — CHURCH — Church of Latter Day Saints having plans prepared by Pope, Burton & Falkenrath, Chamber of Commerce Bldg., Los Angeles, rein.-con. church. $150,000.

Calif., Los Angeles — SCHOOLS—Los Angeles School Dist. had plans prepared by Architectural Dept. Bd. Educ., 2 story school, Radford Ave., and 16 room school, Harrison St., both brick. $150,000 each.

Calif., Oakland—COLLEGE—College of Holy Name having preliminary plans prepared by J. J. Donovan, 1916 Hway., Los Angeles, fireproof college. To exceed $150,000.

Calif., Oakland—SCHOOL—City School Dist. having plans prepared by Building & Grounds Dept. Bd. Educ., 2 story brick, incl. gymnasium, etc., 26th Ave. and Myrtle St. $250,000.

Calif., Owensmouth — SCHOOL — Los Angeles School Dist. having plans prepared by Architectural Dept. Bd. Educ., brick school, incl. auditorium and classroom building. $150,000.

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Buildings—Educational, Religious (Cont.)

Bids Desired

N. H., Portsmouth—HIGH SCHOOL—City, Superintendent Schools, City Hall, taking bids altering and constructing 2 story and basement, brick addition, plain foundation. $150,000. R. Coit, 9 Park St., Boston, Mass., archt.

Mass., Hull—CHURCH—St. Mary of the Bay, C. A. Finn, pastor, Allerton, taking bids 1 story and basement, brick and stone, plain foundation, Main St. and Highland Ave. $150,000. J. M. Gray, 175 High St., Boston, archt.

Mass., Worcester — CHURCH — Sept. 16 (extended date), by Our Lady of Mt. Carmel Parish, G. Maffie, pastor, 1 story and basement, brick and stone, Mulberry St. $160,000. R. C. Gorrani, Green St., archt. Noted Sept. 8.

N. Y., Amenia—SCHOOL—Oct. 19, by Commissioner Mental Hygiene, Dept. Mental Hygiene, Albany, 24 buildings at Wassaic State School for Mental Defectives, here, adv. E. N.-R. Sept. 15. Noted June 23 under "Wassaic."

N. Y., Brooklyn—HIGH SCHOOL and FACULTY HOUSE—Sept. 16, by McKenna & Irving, archts., 15 Park Row, New York City, brick and stone addition, here, for Brooklyn College Preparatory School, 1125 Carroll St., R. P. Connor, in charge.

N. Y., New York—CHURCH and RECTORY—Sept. 16, by R. J. Reilly, archt., 10 East 41st St., 125 x 175 ft., brick and stone church and rectory, for St. Elizabeth Roman Catholic Church, Bway. and 183rd St.

N. J., Totowa (mail Paterson)—DORMITORIES—Sept. 20 (extended date), by C. N. Leathem, Jr., State Bldg., Trenton, 4 dormitories, hospital, water and fire protection, etc. at Training School for Feeble Minded Females, here. Noted Aug. 25.

N. C., Greenville—SCHOOL—Sept. 29, by Bd. Trustees East Carolina Teachers College, completing training school, additional dining room unit, new kitchen and power house, machinery room, laundry, and renevation two dormitories, etc., here. G. R. Berryman, Odd Fellows Bldg., Raleigh, archt.

Ill., Chicago—SCHOOLS—Sept. 22, by Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., Lowell School addition, Hirsch and Spalding Sts.; steam heating, plumbing, ventilating, etc., in Spalding School Addition, Washington and Ashland Sts.; and plumbing in new school, Major and Roscoe Sts. J. C. Christensen, 650 South Clark St., archt.

Ont., Toronto—CHURCH — Darling & Pearson, archts., 2 Leader Lane, taking bids 1 story and basement, concrete, brick and stone church, for Bedford Park Presbyterian Church, $165,000. Noted Mar. 10.

Bids Received

Calif., Los Angeles—AUDITORIUM and LIBRARY—Regents of University of California, general contract auditorium and library, from J. C. Bannister & F. Gow, 6331 Hollywood Blvd., $1,490,000; plumbing, from T. Larsen Co., 2029½ Vermont St., $74,573; heating, to Hickman Bros., 471 8th St., San Pedro, $126,480; boilers and miscellaneous mechanical equipment, from Howe Bros., 1198 San Pedro St., $104,276; and electrical work, from B. L. Perry, $70,092, all foregoing for University of California (Southern Div.), 855 North Vermont Ave. Noted Aug. 18.

Contracts Awarded

Mass., Beverly — SCHOOL — Building Com., City Hall, altering and constructing 2 story and basement, brick and stone addition, plain foundation, McKay St., to C. H. Cunningham & Sons, Co., 23 Central Ave., Lynn. Archts. est. $150,000. Noted June 30.

Mass., Groton—HIGH SCHOOL—F. Torrey, chn. Selectmen, altering and constructing 2 story and basement, 50 x 70 ft., and 25 x 125 ft., brick and stone high school addition, plain foundation, Main St., to G. A. Fletcher, 215 Blossom St., Fitchburg. Archts. est. $150,000.

Mass., Long Island (br. Boston) — NURSES HOME — City of Boston, Institution Dept., 3 story and basement, brick, plain foundation, at Long Island Hospital, here, to J. Bowen, 184 Dudley St., Roxbury. Archts. est. $150,000. Noted June 30.

Mass., Medford (Boston P. O.)—SCHOOL—City, c/o School Comn., 2 story and basement, brick and steel school and auditorium, plain foundation, 4th St., to M. S. Kelliher, 21 North Munroe Terrace, Dorchester, $99,453; heating and ventilating, to Chisholm Plumbing & Heating Co., 379 Westford St., Lowell, archts. est. $25,000. Noted Aug. 4.

Mass., Milford—CHURCH—Sacred Heart Parish 1 and 2 story and basement, brick and stone, plain foundation, East Main St., to J. P. Keating, 80 Boylston St., Boston. Archts. est. $150,000 or more. Noted June 9.

Mass., West Roxbury (br. Boston)—SCHOOL — City of Boston, Schoolhouse Dept., 2 story and basement, rein.-con., brick, granite and limestone, Beach St., Longfellow Dist., here, to F. Imhoff, 164 Dudley St., Roxbury, $257,000. Noted June 23.

Conn., West Hartford (br. Hartford)—SESMINARY—St. Thomas Seminary, M. F. McAuliffe, pastor, 3 story and basement, 60 x 480 ft., and 40 x 160 ft., rein.-con. brick, steel and limestone, Bloomfield Rd., to W. F. O'Neil, 983 Main St., Hartford, $1,089,000. Archts. est. $1,000,000. Noted Aug. 18.

Mass., Quincy (Boston P. O.)—SCHOOL—T. T. McGrath, Mayor, 2 story and basement, brick and stone, plain foundation, to Frankini Bros., 30 Mystic Ave., Medford, $273,641. Noted Mar. 10.

Mass., Rockland — HIGH SCHOOL—Town, P. Mulvihill, secy. comr., general contract 3 story and basement, irregular shaped, brick and stone, plain foundation, Memorial Park, to C. T. Rocheford, 16 Norwich St., Worcester.

Mass., Southbridge — SCHOOL — Town, W. G. Lamoureau, chn. com., 2 story and basement, brick and stone trade school, plain foundation, to F. X. Laliberte, 59 Beecher St., $84,300. Noted Aug. 18.

R. I., North Providence (sta. Providence)—SCHOOLS—Town, School Comn., 2 story and basement addition, Fruit Hill Ave. and school in Allendale Dist., to Interstate Constr. Co., Tribune Bldg., Providence. Archts. est. $150,000. Noted Aug. 11.

Ind., Greencastle—COLLEGE—DePamo University, general contract 3 story and basement, rein.-con., brick, steel and stone, to L. Colvin, 823 Contiental St. archts. est. $250,000.

Ind., Nappenee—HIGH SCHOOL—School Comn., general contract 2 story and basement, 100 x 200 ft., rein.-con., brick and steel, incl. gymnasium and auditorium, to Franz & Leucks, New Paris. Archts. est. $180,000.

Federal Government Work

Proposed Work

D. C., Wash. — Lightship — Oct. 4, by Bureau Lighthouses, and at office Superintendent Lighthouses, San Francisco, constructing Lightship 100.

Tex., San Antonio — Barracks — A. W. Parker, constructing quartermaster, Fort Sam Houston, takes bids about Sept. 18, 3 story and part basement, brick and concrete barracks, Fort Sam Houston, here. Noted July 21.

T. H., Pearl Harbor—Refrigerating Equipment—Spec. 5482—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans refrigerating equipment, incl. motor-driven compressors, condenser, liquid receiver, motor-driven brine pumps, brine cooler, return tank, etc. at Naval Operating Base (Submarine Base), here.

Bids Desired

N. Y., New York—Piping—Sept. 29, by Treas. Dept., at office Supervising Archt., Wash., D. C., brass water supply system, at U. S. Custom House, here; adv. E. N.-R. Sept. 15.

N. Y., Northport—Canteen Building—Oct. 11, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., canteen building at U. S. Veterans Hospital, here.

N. J., Oceanport—Hospital—Sept. 27, (extended date), by Contracting Quartermaster, Fort Monmouth, general contract 3 story and basement, 100 x 100 ft., brick and steel, plain foundation, Fort Monmouth, here. $150,000. Noted Aug. 18.

D. C., Wash.—Power and Heating Building—Sept. 20, by Bureau Standards, power and heating building. $185,000. W. I. Deming, 808-17th St. N.W., archt.

Va., Norfolk—Dredging — Oct. 10, by U. S. Engineers Office, dredging in southern and eastern branches Elizabeth River, Norfolk Harbor, here, adv. E. N.-R. Sept. 15.

La., New Orleans — Levee Work — See "Contracts Awarded."

Kan Ft. Riley (Ind. br. Junction City)—Ammunition Magazine—Sept. 20, by Quartermaster General's Office, Fort Riley, constructing ammunition magazine at Natl. Guard Camp, here.

Ore., Astoria—Wharf—Sept. 30, by Treas. Dept., at office Supervising Archt., Wash., D. C., repairing wharf at Quarantine Station, here.

California — Guard Rail and Paving — Sept. 20, by Natl. Park Serv., Dept. of Interior, 907 Sheldon Bldg., 461 Market St., San Francisco, constructing masonry guard rail and stone ditch paving Yosemite Natl. Park Highway System.

Bids Received

Me., Bar Harbor—Altering—Spec. 5406—Bureau Yards & Docks, Navy Dept., Wash., D. C., Sept. 7, altering radio building, Otter Cliffs, here, from E. K. Whitaker, Bar Harbor, $35,456. Noted Aug. 18.

Me., Caribou—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C., Sept. 8, constructing U. S. Post Office, here, from English Constr. Co., 15 West 91st St., New York City, $51,000. Noted Aug. 25.

New York—Dredging—U. S. Engineer Office, Army Bldg., Whitehall St., New York City, Sept. 12, dredging and rock removal at Mamaroneck Harbor, from Trimount Dredging Co., 101 Tremont St., Boston, Mass., $45,297; and in Hempstead Harbor, from Bay State Dredging Co., 62 Condor St., East Boston, Mass., $38,925. Noted Aug. 18.

Va., Yorktown — Magazine Buildings — Spec. 5476—Bureau Yards & Docks, Navy Dept., Wash., D. C., Sept. 7, constructing magazine buildings at Navy Mine Depot, here, from Hugger Bros. Constr. Co., 703 Shepard Bldg., Montgomery, Ala., $229,000. Noted Aug. 18.

Ala., Selma—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here, from A. C. Samford, 24 Galena Ave., Montgomery, $22,650. Noted Aug. 11.

Wyoming — Roads — Bureau Pub. Rds., Denver, Colo., Aug. 25, grading 4 mi. Teton Highway Srufacing Sect., Teton Co., here from Butler Bros., Driggs, Idaho, $15,020 and constructing Devils Tower Bridge Project, Crook Co., from C. M. Smith, Thermopolis, Wyo., $28,500. Noted Aug. 25.

Utah—Road—B. J. Finch, dist. engr. Bureau Pub. Rds., 403 Kisel Bldg., Ogden, grading, etc. Sects. 1 and 2 East Rim Road Project within Zion Natl. Park, Washington Co., here, from Nevada Contg. Co., Fallon, Nev., $607,058. Noted Aug. 11.

Ariz., Tucson—Hospital—U. S. Veteran's Bureau, Arlington Bldg., Wash., D. C., Aug. 11, general contract nineteen 1 and 2 story buildings at U. S. Veteran's Hospital, here, from Sumner Sollitt Co., 307 North Michigan Blvd., Chicago, Ill., $775,134. Noted June 30.

Calif., San Diego—Garage—Spec. 5363—Bureau Yards & Docks, Navy Dept., Wash., D. C., Sept. 7, garage at nurses quarters Naval Station, here, from M. H. Golden, San Diego, $4,611. Noted Aug. 25.

Contracts Awarded

Pa., Tarentum—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C., constructing U. S. Post Office, here to A. M. Lundberg, 208 North Bway., St. Louis, Mo., $63,900. Noted Sept. 8.

Va., Norfolk—Dredging—U. S. Engineer Office, dredging at mouth Onancock River, here, to W. H. French, Dredging & Wrecking Co., Inc., Citizens Bank Bldg., $49,578. Noted July 21.

Va., Yorktown—Roads—Spec. 5424—Bureau Yards & Docks, Navy Dept., Wash. D. C., roads at Navy Mine Depot, here, to L. Morgan Johnston, Arlington, $118,755 (300 days). Noted Sept. 8.

La., New Orleans—Levee Work—U. S. Engineers Office, will build 515,000 cu.yd. levee work in Lower Tensas Levee District, by day labor.

Tenn., Chattanooga—Drilling—U. S. Engineers Office, diamond core drilling for subsurface investigations at 3 dam sites, Clinch River, here, to Standard Drilling Co., 420 Lexington Ave., New York City, $11,462.

Ill., Great Lakes (mail Waukegon)—Heating Plant Building—Spec. 5404—Bureau Yards & Docks, Navy Dept., Wash., D. C., heating plant building at U. S. Naval Training Station, here, to Peterson-Colwell, Inc., Minneapolis, Minn., $65,214 (300 days). Noted Sept. 8.

Wyoming—Roads—J. W. Johnson, dist. engr. Bureau Pub. Rds., Denver, Colo., grading, etc. Encampment—Slater Natl. Forest Road Project, Carbon Co., here, to Jacobson & Ehrhart, 603 Washington St., Denver, Colo., $39,765. Noted Sept. 8.

New Mexico—Roads—Bureau Pub. Rds., Custom House, Denver, Colo., surfacing 6.61 mi. Cimarron-Taos Natl. Forest Road Project, Taos Co., to Shields & Kyle, 1301

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Federal Government Work (Continued)

South York St., Denver, Colo., $91,224. Noted Aug. 25.

Calif., Palo Alto—Fence and Gates—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., fence and gates at U. S. Veterans Hospital, here, to Standard Fence Co., 60th and Lowell Sts., Oakland, $10,832. Noted Aug. 25.

Calif., San Diego—Altering—Spec. 5416—Bureau Yards & Docks, Navy Dept., Wash., D. C., altering basement Ward "B", outpatients Dept., to E. F. Hastings, San Diego, $13,880.

Unclassified

Proposed Work

Wharves—New Orleans, La.—Dock Bd., 500 Camp St., had preliminary plans prepared replacing Poland St. Wharf with concrete and steel structure, 400 ft. long, $500,000; also removing present structure and constructing Poydras St. Wharf, double deck, steel and concrete on treated piles, $1,500,000. S. Young, Camp St., engr.

Tunnel and Approaches—Anderson, Ind.—Madison Co. and Cleveland, Cincinnati, Chicago & St. Louis Ry., H. Baldwin, ch. engr., 230 East 9th St., Cincinnati, O., did not award contract for tunnel and approaches incl. 7,000 cu.yd. earth excav., to Herrick & Co., Cuyahoga Bldg., Cleveland, O. This corrects report in Aug. 11 issue.

Pipe Line—Texas—Ozark Pipe Line Corp. Shell Bldg., St. Louis, Mo., making plans approximately 12 mi. pipe line from Muenster to Bulcher. $60,000.

Natural Gas System—Texas—West Texas Gas Co., Amarillo, making plans gas distribution system and pipe line from Amarillo fields to Lamesa. $185,000. Private plans.

Transmission Line, etc.—Texas—Central Power & Light Co., c/o Frost Bldg., San Antonio, making plans 22 mi. high power transmission line between Driscoll and Corpus Christi, and sub-station in Driscoll. $80,000. Private plans.

Underpass—Amarillo, Tex.—Potter Co., c/o S. B. Motlow, co. judge, Amarillo, making preliminary plans, underpass under Rock Island Ry. tracks on Canyon Rd., 6 mi. west of here. $40,000. J. W. Ryder, Amarillo, co. engr.

Townsite Development—Catarina, Tex.—F. C. McCarthy, c/o Richey-Casey & Gragg, North St. Mary's St., San Antonio, making preliminary plans new townsite, developing 56,000 acres land in Dimmit and Zavalla Counties, 20 mi. northwest of here, incl. grading $45,000; waterworks $25,000, and sewers $30,000. Private plans.

Lighting System, etc.—Fort Davis, Tex.—Central Power & Light Co., c/o Frost Bldg., San Antonio, plans complete lighting system and power plant, here. $35,000. Private plans.

Wharf, etc.—Galveston, Tex.—Galveston Wharf Co., c/o G. Seay, pres., 2324 B St., making surveys and preliminary plans improving wharf, incl. increasing storage and loading capacity of Elevator B, additional concrete bins, etc. $350,000. Private plans.

Lake—Grapeland, Tex.—Grapeland Country Club, made plans developing 174 acre site adjoining club, incl. construction lake covering 100 acres, etc. $75,000.

Storage Tanks—Myra, Tex.—Humble Pipe Line Co., Humble Oil Co. Bldg., Houston, and Humble, made plans two 55,000 bbl. storage tanks, near here. $125,000. Work may be constructed by day labor. Private plans.

Race Track—San Antonio, Tex.—W. P. Kyne, c/o Chamber of Commerce, making preliminary plans and surveys, etc. ½ mi. race track, barns, loading, chutes, etc. $100,000. Private plans.

Land Development—Weslaco, Tex.—Progresso Development Co., c/o J. A. Baker, Baldwin and Hadley Sts., Houston, and Weslaco, making plans developing 6,000 acre site, near here incl. 2 lakes, dredging, etc. $100,000, streets $75,000, waterworks $40,000, sewers $40,000, lighting system $45,000, and hard surfacing 25 mi. roads $250,000, etc. Total $3,500,000.

Transmission Line — Oklahoma — Chickhoma Gas & Electric Co., Insurance Bldg., Oklahoma City, made plans 9 mi. 13,200 volt electric transmission line from Meeker to Payson and distribution system in Payson. $27,500. Byllesby Eng. Co., 231 South La Salle St., Chicago, Ill., engr.

Transmission Line — Oklahoma — Chickasha Gas & Electric Co., Chickasha, made plans 16 mi. 13,200 volt transmission line from Anadarko to Washita and to Ft. Cobb with distribution system in each town. F. D. Shafer, Chickasha, engr.

Grain Elevator—Saskatoon, Sask.—Robin Hood Mills Ltd. making plans constructing elevator, flour mill, warehouse and office building. $500,000.

Pile Wharf—North Vancouver, B. C.—Vancouver Harbor Comrs., 525 Seymour St., Vancouver take bids about Sept. 30, 500 ft. creosoted pile wharf, 50 ft. incl. storage sheds on north shore Burrards Inlet, here. $50,000. H. W. Frith, 525 Seymour St., Vancouver, engr.

Bids Desired

Arena—Nashua, N. H.—National Club, c/o J. H. Rogers, archt., 10 State St., Boston, Mass., taking bids 105 x 210 ft., brick and steel arena, here.

Street Signs—Boston, Mass.—See "Contracts Awarded."

Shelter—Cambridge (br. Boston) **Mass.**—Sept. 20, (extended date), by Building Dept., concrete shelter building, Rindge Field. $25,000. T. P. Graham, 171 Newbury St., Boston, archt. Noted Sept. 1.

Mechanical Equipment—Brooklyn, N. Y.—Sept. 27, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., mechanical equipment, incl. plumbing, heating and ventilating, electrical work, etc. in P. S. 225, Ocean View Ave., Brighton Beach, for Bd. Educ., 500 Park Ave., New York City.

Mechanical Equipment—Far Rockaway, N. Y.—Sept. 27, by W. H. Gompert, engr. and archt., Flatbush Avenue extension and Concord St., Brooklyn, mechanical equipment, incl. plumbing, heating and ventilating, electrical work, etc. in Far Rockaway High School, Cornaga Ave. and Beach 25th St., here, for Bd. Educ., 500 Park Ave., New York City.

Exit Facilities and Fire Stops—Rochester, N. Y.—Sept. 28, by Commissioner Mental Hygiene, Dept. Mental Hygiene, Capitol, Albany, constructing exit facilities, fire stops, electric lighting, etc. at State Hospital, here; adv. E. N.-R. Sept. 15.

Subway Stations—Phila., Pa.—Sept. 30, by Dept. City Transit, H. E. Ehlers, dir., 1211 Chestnut St., finishing Race-Vine, Spring Garden, Fairmount and Girard Stations for Broad Street Subway, Contr. 181.

Overpass — Florida — See "Streets and Roads."

Coal and Ash Handling Equipment—St. Louis, Mo.—Oct. 4, by Bd. Pub. Serv., 208 City Hall, coal and ash handling equipment for Municipal Service Bldg., 12th St. and Clark Ave. $30,000. J. Prichard, dir.

Lighting System—Anaheim, Calif.—E. B. Merritt, city clk., taking bids ornamental lighting system in portions East and West Bway., North and South Lemon, and West La Palma Sts. To exceed $25,000.

Lighting System—Fullerton, Calif.—F. C. Hazmalhach, city clk., taking bids ornamental lighting system on portions North Richmond and North Grand View Aves., etc. $25,000 or more.

Contracts Awarded

Boiler House and Heating Plant—Boston, Mass. — Mayors Office, City Hall, boiler house and heating plant in Highland Ave. School, to J. M. Hartwell, 46 Cornhill, $62,000. Noted Aug. 11 under "Buildings—Industrial."

Electrical Work—Boston, Mass.—Library Dept., Library Bldg., reconstructing electric wiring in Central Library Building, Copley Sq., to Federal Electric Supply Co., 42 High St. $36,997. Noted July 21.

Street Signs—Boston, Mass.—Dept. Pub. Wks., will construct 25,000 steel plate intersection street signs on wrought iron posts 8 ft. high, on various streets, by day labor. $100,000. J. H. Sullivan, c/o owner, comr.

Comfort Station—New Bedford, Mass.—City, Pub. Buildings Dept., City Hall, 1 story, concrete and timber comfort station and skaters rest house, to T. Loranger, 238 Phillips Ave., $24,023. Engrs. est. $25,000. Noted Aug. 4.

Culverts—New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, culverts along Conduit Blvd., Queens Co., to B. Greico, 44 Russell St., Brooklyn, $34,456. Noted Aug. 25.

Pier Sher — New York, N. Y. — Dept. Docks, Pier "A," foot Battery Pl., constructing pier shed over Pier 46, over North River, to Carleton Co., 151 West 42nd St., $485,352. Noted Aug. 18.

Barges—Pittsburgh, Pa.—Anderson-Tully Co., North 2nd Ave., Memphis, Tenn., 2 barges, 160 ft. long, 34 ft. wide and 7 ft. deep, 335 tons steel plates and sections required, to Amer. Bridge Co., Frick Bldg., Pittsburgh. Engrs. est. $100,000.

Tunnel, etc.—Anderson, Ind—Cleveland, Cincinnati, Chicago & St. Louis Ry Co., H. Baldwin, ch. engr., 230 East 9th St., raising yards 3 ft., constructing tunnel at Main St., and track elevation, here, to Walsh Constr. Co., 308 Euclid Ave., Cleveland, O., approximately $100,000. Engrs. est. $110,000.

Culverts—Centerville, Ia.—Appanoose Co., 39 culverts and extensions on Primary Bridge Project 475, to Ellis & Jordan, Centerville, $33,296.

Culverts—Indianola, Ia.—Warren Co., 38 culverts and extensions, to A. L. Summers, Indianola, $27,000.

Grain Elevator—St. Louis Park, Minn.—Commander-Larabee Milling Co., B. B. Sheffield, pres., 922 Flour Exch. Bldg., Minneapolis, general contract 1,000,000 bu. rein.-con. addition, here, to Barnett & Record Co., Flour Exch. Bldg., Minneapolis, approximately $160,000.

Culverts — Nebraska — See "Streets and Roads."

Subway—Galveston, Tex.—City and Galveston, Harrisburg & San Antonio Ry., subsidiary of Southern Pacific Lines (in Texas and Louisiana) Texas and New Orleans R.R. Co., R. W. Barnes, ch. engr., Southern Pacific Bldg., Houston, 120 ft. concrete and timber subway, 16 ft. high, under railway tracks connecting Navigation Blvd. with 75th St., to Johnston Constr. Co., Galveston, approximately $25,000.

Wharves—Houston, Tex.—Houston Port Comn., constructing Wharves 14 and 15, at ship channel, to C. W. Ennis, 1401 Dowling St., $402,800. Engrs. est. $300,000. Noted Sept. 1.

Piers—Seattle, Wash.—Northern Pacific R.R. Co., H. E. Stevens, ch. engr., St. Paul, Minn., 100 x 150 ft. extension to Pier 5, at 1215 Railroad Ave. incl. driving five hundred and sixty-seven 75 to 90 ft. piles, to McEachern Constr. Co., Colman Bldg., $55,000.

Lighting System—Culver City, Calif.—Ornamental lighting system on Wagner St., etc., to Newbery Electric Co., 726 South Oliver St., Los Angeles, $25,425.

Lighting System Los Angeles, Calif.—Ornamental lighting system on Bway. between Manchester Ave. and 93rd St., to D. S. McEwan, 3018 Lincoln Blvd., $25,192.

Lighting System — San Jose, Calif. — Ornamental lighting system on 2nd St. between St. John and San Salvador Sts., to R. M. Butcher, 68 South Willard St., $28,919.

Grain Elevator—Montreal, Que.—Harbor Comr. 30,000,000 bu. grain elevator, concrete, to E. G. Cape & Co., Ltd., New Birks Bldg., $1,800,000, incl. machinery..

Pier — Port Maitland, Ont. — Dept. Pub. Wks., Ottawa, concrete and timber pier, Port Maitland Harbour, to V. T. Bartram, Bank of Toronto Bldg., Toronto, $45,000. Engrs. est. $40,000.

Materials

Bids Desired

Fuel Oil—Boston, Mass.—Sept. 21, by Supply Dept., light and heavy fuel oil to various City Depts. as required. To exceed $5,000. H. S. Frost, supt.

Pipe Burlingame, Calif.—City in market c.i. pipe for extending water works.

Bids Received

Asphaltic Cement—Brooklyn, N. Y.—J. J. Byrne, pres. Brooklyn Boro, Sept. 8, 400,000 gal. asphaltic cement, from Warner Quinlan Co., 26 Beaver St., New York City, $25,360; 4,800 cu.yd. binder stone and 2,500 tons limestone, from New York Trap Rock Corp., 250 Park Ave., New York City, $9,312 and $12,168 respectively; 4,000 cu.yd. asphalt sand, from Ryan, Buckley & Hickey, Inc., 66 Court St., $3,880. Noted Sept. 1.

Cement — Los Angeles, Calif. — Los Angeles Co., from Monolith Portland Cement Co., Bartlett Bldg., 38,000 bbl. portland cement at mill at $2.07 per bbl. or in sacks $2.58, f.o.b. cars San Dimas. Noted Aug. 25.

Contracts Awarded

Pipe—Baltimore, Md.—Bd. Awards, vitr. terra cotta pipe, to Baltimore Clay Products Co., 2113 West Lafayette Ave., $19,204.

See proposal advertising on page 136

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UNIT PRICES

On actual contracts gathered by field correspondents, also those sent in by readers

Bridge—Harrisburg, Penn.

Bids were opened by B. E. Taylor, Secy. Dept. Property & Supplies, Capitol, July 21, for Soldiers & Sailors Memorial Bridge, Contr. No. 2, from (A) James McGraw Co., Phila.; (B) S. W. Shoemaker & Son, Harrisburg; (C) C. W. Strayer, Harrisburg; (D) Winston Bros. Co. & H. H. Wilson, Harrisburg; (E) Whiting-Turner Co., Baltimore; (F) O'Neill Co., Phila.; (G) F. A. Canuso & Son, Phila.; (H) McLean Contg. Co., Baltimore. The unit bids are as follows:

	A	B	C	D	E	F	G	H
Premium for bond	$24.00	$24.18	$30.00	$20.75	$30.00	$25.50	$28.50	$29.00
Preliminary work	10.00	12.70	90.00	24.25	15.00	9.50	3.00	15.00
Removal of Penn. R.R. bridge	6.00	5.00	2.20	2.05	7.50	20.00	12.50	10.00
Temporary foot bridge	3.50	6.00	1.903	6.20	4.00	5.00	2.50	4.00
Stairs	700.00	786.00	330.00	1,100.00	700.00	300.00	500.00	500.00
800 sq.yd. remov. brick paving	.30	.50	.30	.40	.75	.65	1.00	.60
400 lin.ft. remov. curb	.30	.35	.10	.30	.30	.50	1.00	.25
4,000 cu.yd. excav.	2.00	2.60	2.00	4.00	2.30	1.65	2.40	2.00
Test piles	300.00	275.00	275.00	100.00	260.00	350.00	262.50	355.00
Bearing piles 10 ft. and under	3.50	2.55	2.75	2.00	2.50	3.25	2.40	3.00
Bearing piles 10 to 15 ft	3.50	2.55	2.75	2.00	2.50	3.25	2.40	3.00
Bearing piles 15 ft.	3.50	2.55	2.75	2.00	2.50	3.25	2.40	3.00
224 lin.ft. 36-in. caissons	8.00	14.96	16.60	15.00	10.00	15.00	13.55	12.60
1,176 lin.ft. 42-in. caissons	11.00	20.46	21.60	17.50	13.00	20.00	18.90	17.60
480 lin.ft. 50-in. caissons	13.50	28.82	20.20	20.00	17.00	28.00	27.00	25.20
117 lin.ft. 52-in. caissons	18.00	28.88	29.25	21.00	18.00	28.10	27.15	25.25
632 lin.ft. 54-in. caissons	19.50	30.36	30.60	22.00	19.00	29.50	28.60	26.60
210 lin.ft. 56-in. caissons	22.00	32.72	32.75	23.00	21.00	33.00	31.90	28.75
1,561 lin.ft 60-in. caissons	28.00	39.02	38.48	24.00	23.00	38.00	37.00	34.48
41 lin.ft. 70-in. caissons	40.00	48.25	46.87	31.00	30.00	48.00	46.15	42.87
3,450 cu.yd. 1-6 con. in footings	14.00	18.00	10.60	10.50	11.35	12.90	13.25	10.70
9,600 cu.yd. 1-6 con. above footings	16.00	20.00	13.40	13.00	14.70	15.90	16.30	13.88
2,250 cu.yd. 1-6 con. above granite base	15.00	20.00	13.40	12.00	14.65	16.35	16.60	12.72
3,510 cu.yd. 1-6 con. above footing	15.00	18.00	13.90	12.00	14.50	15.90	17.50	13.70
3,290 cu.yd. 1-6 con. above granite	15.00	20.00	13.90	12.00	14.50	15.40	17.50	13.70
7,800 cu.yd. 1-6 con. in arch rings	18.00	30.00	19.80	18.00	22.55	19.40	23.50	18.35
380 cu.yd. 1-6 con. for R.R. arch	30.00	45.00	25.00	35.00	31.20	21.50	35.00	45.75
1,110 cu.yd. 1-6 con. arch spandrel wall	16.00	25.00	14.40	18.00	24.30	19.80	22.00	14.84
880 cu.yd. con. 1-6 slabs on R.R. arch	17.00	30.00	17.00	23.00	20.50	20.00	25.00	15.76
3,500 cu.yd. 1-6 nonsustain con. back	22.00	20.00	16.70	19.50	17.30	19.90	21.00	17.14
1,810,000 lb. reinforced steel	.035	.045	.033	.04	.041	.044	.041	.049
2,000 lb. copper flashings	.50	.70	.36	.50	.45	.50	.45	.48
4,900 sq.ft. contex surface finish	.10	.12	.08	.07	.10	.075	.20	.08
164,000 ft. tooled surface finish	.05	.10	.10	.174	.18	.10	.07	.10
167,000 sq.ft. waterproof and con. coat	.30	.40	.28	.34	.29	.185	.155	.27
267,000 ft. granite base course	5.00	5.90	4.80	7.00	5.95	5.50	9.35	5.84
160 cu.ft. steps and platform	6.00	6.73	5.00	7.50	7.00	5.90	8.75	6.20
28 hub guards	90.00	75.00	51.30	100.00	100.00	200.00	57.00	115.00
65,000 cu.ft. facing	4.00	4.45	4.00	4.25	4.25	4.20	5.00	3.65
3,300 lin.ft. bullnose course	18.50	18.11	16.65	14.90	18.00	18.50	22.30	18.00
5,400 lin.ft. parapets	22.00	19.00	19.50	22.20	23.00	22.00	25.25	22.00
2,800 cu.ft. balconies and stairs	4.30	4.00	3.83	5.70	5.00	4.30	4.95	4.90
24 keystones for arches	760.00	700.00	640.00	650.00	800.00	760.00	600.00	740.00
8 keystones for arches	625.00	600.00	520.00	530.00	680.00	625.00	500.00	610.00
6 stone grills in stairs	225.00	153.00	140.00	190.00	200.00	225.00	150.00	180.00
2 ornamental panels	310.00	338.50	264.00	310.00	350.00	310.00	300.00	302.00
1,940,000 lb. struc. steel in spans over Penn. R.R. tracks	.05	.05	.043	.0565	.044	.054	.0475	.042
67,500 sq.ft. gunite protection	.50	.40	.40	.47	.41	.465	.45	.40
2 staircases, complete	4,000.00	4,855.00	1,100.00	1,300.00	1,600.00	2,000.00	2,500.00	3,000.00
1 bronze door, complete	13.50	10.00	12.00	15.00	12.50	15.00	13.00	14.00
14,000 cu.yd. excavation	.90	2.50	1.60	.375	.92	1.10	.90	1.00
37,000 cu.yd. arch fills	.70	.51	.30	.68	.80	1.10	.90	1.00
1,800 sq.yd. sodding	.80	.50	.70	1.00	1.40	.60	1.00	1.40
5,000 sq.yd. seeding	.25	.30	.19	.40	.25	.30	1.00	.15
58 c. i. drain inlets and covers	75.00	90.00	63.76	73.00	67.00	55.00	50.00	25.00
1,600 lin.ft. c. i. pipe	2.00	2.15	3.76	1.82	2.20	4.00	2.25	3.50
700 lin.ft terra cotta pipe	1.00	.82	2.23	.75	1.00	2.00	.90	.60
500 lin.ft. 12-in. T. C. pipe	1.50	1.26	1.74	1.10	1.50	2.25	1.75	1.00
3,300 lin.ft. 12 way T. C. ducts	1.50	1.50	1.40	1.50	1.55	2.00	9.75	1.70
3,300 lin.ft. 3½-in. fibre ducts	.20	.30	.30	.30	.30	.35	1.00	.32
800 lin.ft. 1½-in. metallic conduits	.25	.30	.30	.25	.40	.75	.80	.30
22 manhole frames and covers	30.00	63.00	26.00	30.00	50.00	100.00	25.00	23.00
100 pull boxes	7.00	25.00	7.00	7.30	25.00	10.00	35.00	8.00
50 trolley pole sockets	20.00	30.00	25.00	16.00	22.00	5.00	50.00	25.00
500 sq.ft. tile lighting dome reflectors	3.50	4.10	3.60	3.40	4.25	2.25	3.50	1.50
3,500 sq.yd. removal existing pavements	.75	.60	1.00	2.00	1.05	.50	1.00	.60
1,800 lin.ft. removal existing curb	.20	.35	.10	.30	.30	.50	1.00	.20
13,300 sq.yd. con. roadway pavement	3.00	2.50	2.00	3.10	4.00	2.30	3.25	2.90
4,300 lin.ft. granite curb	4.00	6.44	4.80	6.50	6.40	5.30	7.30	6.00
27,000 sq.ft. sidewalks	.25	.25	.25	.40	.43	.25	.40	.30
300 lin.ft. 12-in. T. C. pipe	1.50	1.26	1.74	1.10	1.70	2.50	1.75	1.00
14-in. T. C. pipe	1.50	1.63	3.10	1.25	2.50	4.00	2.00	2.00
16-in. T. C. pipe	2.00	2.37	6.00	1.75	3.50	5.00	2.50	3.00
18-in. T. C. pipe	2.75	2.37	3.00	1.75	4.00	6.00	3.00	4.00
24-in. T. C. pipe	3.50	3.92	5.00	3.00	5.50	7.00	3.50	5.00
22 drain inlets and catch basins	150.00	120.00	80.00	120.00	170.00	70.00	75.00	60.00
Manholes, frames and covers	250.00	225.00	100.00	120.00	250.00	100.00	110.00	100.00
Totals	$1,624,651	$1,638,650	$1,650,848	$1,672,228	$1,730,189	$1,754,270	$1,915,335	$1,961,174

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